Department of Energy & Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division

FORM III VERIFICATION (*PROPERTY*)

This verification must be signed by a Connecticut Licensed Environmental Professional and the Certifying Party.
Retain a copy for your records.

(DEEP use only)
Ver#:

Part I: Site Information

Establishment now or formerly known as: Former Anocoil Corporation

Establishment Address: 60 East Main Street (aka 40 Brooklyn Street and 1 Court Street)

City/Town: Vernon State: CT Zip Code: 06066

Described in the Tax Assessor's Office in the Town of: Vernon

as lot 3 & 4, block 117 on map 40 Acreage of Establishment: 5.05

Part II: Verification Information

This verification pertains to the Form III filed with the Department on 4/7/2016 and assigned **Rem#** 12729.

If this Final Verification is being used to also close any previous Form III filing(s), list the applicable Rem #s:
3071 12734

Note →this verification will be rejected if erroneous entries are presented.

In accordance with §22a-134a(n), this verification may be applied to all releases existing at the parcel at the date the Form III was filed, or to all releases existing at the parcel at the time of a Phase II Investigation (as defined in the Site Characterization Guidance Document), whichever is later. This verification may also be applied to the environmental conditions of the property establishment as of the date this verification is signed and sealed.

Enter **all** of the following dates, then mark the one date to which this verification applies (Primary Rem#).

	Date of Form III Filing:	Date of complete Phase II:	Date of this verification:
	4/7/2016	**7/7/2015**	**9/28/2018**
This verification applies to this date: (check only one)	☒	☐	☐

"I verify in accordance with Section 22a-134(19) of the Connecticut General Statutes and Section 22a-133v-1(z) of the Regulations of Connecticut State Agencies (RCSA), that an investigation has been performed at the parcel in accordance with prevailing standards and guidelines, and that...

(check one of the following)

☐ **The establishment was in compliance with the remediation standards** (RCSA Sections 22a-133k-1 through 22a-133k-3) **at the date indicated above, without requiring remediation**."

☒ **All releases existing at the establishment at the date indicated above, have been remediated in accordance with the remediation standards** (RCSA Sections 22a-133k-1 through 22a-133k-3)."

Signature of Licensed Environmental Professional License #: 397

LEP Seal

Brent J. Henebry
Name of Licensed Environmental Professional (print or type)

Phone Number: 860-646-2469 x5
e-mail: bhenebry@fando.com

Part III: Compliance History

A. Previous Verification Information

If this Form III Verification relies on or incorporates a previous Verification or Commissioner Approval, complete the box below:

Type of Verification	Date Verification submitted	Rem#	Ver#	Status
☐ Commissioner Approval of Remediation			Date of approval:	

☐	Conditions or environmental controls presented in any verification or Commissioner Approval of Remediation indicated above (and incorporated into this verification) have not changed since the rendering of such verification/approval.
	Comments:

B. Significant Environmental Hazard

Was a significant hazard, as defined in §22a-6u identified?	☐ Yes ☒ No
Significant Hazard Notification filed?	☐ Yes ☐ No ☒ N/A
What type(s) of hazard(s) were identified?	
Date of Commissioner's Certification for Abatement: OR Date of Commissioner's Memorandum of Resolution:	

☒	Public notice of remediation was posted in accordance with the requirements of §22a-134a and Section 22a-133k-1(d) of the RCSA. A copy of the PN, and discussion of any comments received are attached to the Verification Report.

Part IV: Standards for Soil Remediation

Check either #1, #2, or #3 below to indicate the final assessment of release determination and investigation completed at the subject property for all potential releases applicable to the pertinent date of this verification.

A. Release Determination and Investigation

1. ☐ **No Releases to Soil**.

All potential releases to soil applicable to the pertinent date of this verification have been investigated in accordance with prevailing standards and guidelines, including the SCGD (Phase II ESA) or other equal alternative approach, and there were no detected concentrations of a substance in soil.

☐ Subsequent to previous verification identified in Part III. A. above.

☐ The relevant findings of all "No-Release" determinations are presented in the Verification Report.

If #1 checked, skip to Part V [Groundwater Remediation Standards] below.

2. ☐ **Releases to Soil – No Remediation or other Compliance Measure Required**.

Substances, applicable to the pertinent date of this verification, were detected in soil, but all detected concentrations of substances in soil were less than criteria before remediation or initiation of other compliance measure.

☐ Releases subsequent to previous verification identified in Part III. A. above.

☐ The nature and distribution of all releases applicable to the pertinent date of this verification have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

If #2 is checked, skip to Part IV. C [Application of Standards for Soil Remediation] below.

3. ☒ **Releases to Soil –Remediation or other Compliance Measure Required**

Substances in soil at the site and associated with a release applicable to the pertinent date of this verification exceeded criteria [at any time] and RSR compliance for these substances was not verified, complete the information in the box below.

Criterion Exceeded		Category of COC		Compliance Measure	
☒	PMC	☐	Non-chlorinated VOCs	☒	Excavation & Removal
☐	GA	☐	Chlorinated VOCs	☐	Excavation / On-site Re-use
☒	GB	☒	Metals	☐	Engineered Control
☒	DEC	☒	PAHs	☒	ELUR
☒	Res	☐	SVOCs	☐	In-situ
☒	I / C	☐	PCBs	☒	RSR Exemption
		☒	Petroleum Hydrocarbons	☒	Use of RSR Alternatives
		☐	Pesticides / Herbicides	☒	Use of 95% UCL
				☐	Other

☒	The Form III Verification Report (VR) documents and explains how the Soil Remediation Standards were achieved at each release area.

B. Compliance Measures

1. Excavation

☒	Remediation excavation of polluted soil was conducted to achieve compliance		Applicable Release Area (RA) ID #'s
	Remedial excavation discussed in Section 4.2.1, page 38 in the VR.		
☐	Polluted soil meeting definition of **hazardous waste** per CGS 22a-449(c) was located on site and was treated, stored, disposed, and/or transported in conformance with RCRA section 22a-449(c)-101 through 110.	22a-133k-2(h)(1)	
☐	The Commissioner authorized the disposal of polluted soil as **special waste**, as defined in RCRA section 22a-209-1	22a-133k-2(h)(2)	
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
☐	Polluted soil reused on-site	22a-133k-2(h)(3)	
	Total volume excavated soil reused on site:		
☐	Polluted soil reused off-site (Commissioner approval)	22a-133k-2(h)(3)	
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
	Total volume of excavated soil removed from site:		

2. Engineered Control

☐	Engineered Control of Polluted Soil (Commissioner approval and ELUR has been recorded	22a-133k-2(f)(2)	Applicable Release Area (RA) ID #'s
☐	Use of Engineered Control for **DEC**	…(B)(i)(I)	
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:		
	→Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR		
☐	Use of Engineered Control for **PMC**	…(B)(i)(II)	
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:		
	→Copy of Certificate of Title page (w/ volume, page, and date recorded) must be attached to VR		
☐	Financial Surety (**Required for Commissioner-Approved EC or TI Variance**)		
	Type of Financial Surety Mechanism established:		
	Date Financial Surety Mechanism information submitted to Commissioner:		
	→Copy of the Financial Surety Mechanism must be attached to VR		
☐	Financial Surety Mechanism was established for an EC covered under a previous verification.		
☐	If yes, the financial surety mechanism has been confirmed to still be in place and remains valid.		
	Comments:		

3. In-Situ Remediation

☐	In-Situ remediation of polluted soil was conducted to achieve compliance		Applicable Release Area (RA) ID #'s
	☐ Temporary Authorization		
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
	☐ General Permit		
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR	
	Describe measures taken:		

4. Institutional / Administrative Compliance Measures

☒	The use of any ELUR, RSR Exemption, RSR alternatives, or use of 95% UCL are indicated in the appropriate sections below, and described in detail in the VR.

5. Other compliance measures

☐	Describe measures taken:

C. Application of Standards for Soil Remediation

Complete Sections C. #1 through C. #7 below as applicable for this verification.

1. Background concentration in soil	22a-133k-2(a)(2)
☒	Notice is required to be submitted to the Commissioner if background conditions are applicable at the project site. Checking this box may be considered such Notice.
	Section 22a-133k-2(a)(2) of the RSRs provide prerequisites to demonstrate a background condition exists, and all must apply. The use of Background is discussed in Section 2.2.5, page 20 in the VR:

2. Direct Exposure Criteria (DEC)		22a-133k-2(a)1(A) and k-2(b)	Applicable Release Area (RA) ID #'s
☒	Polluted soils ≤ Residential DEC	22a-133k-2(b)(1)	AOCs 1, 20, 102
☒	Polluted soils ≤ Industrial/Commercial (I/C) DEC (no PCBs and ELUR recorded)	22a-133k-2(b)(2)(A)	AOC 105
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:6/27/2018		
	→*Copy of Certificate of Title page (with volume, page, and date recorded)* ***must*** *be attached to VR*		
☐	PCB polluted soil ≤ I/C DEC (electrical substation or other restricted access location and ELUR recorded)	22a-133k-2(b)(2)(B)	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:		
	→*Copy of Certificate of Title page (with volume, page, and date recorded)* ***must*** *be attached to VR*		
☒	Additional Polluting Substance (Commissioner approval) Approval date(s): 6/22/2018	22a-133k-2(b)(5)	AOCs 1-20 and 101-105
		→*Copy(s) of Approval(s)* ***must*** *be attached to VR*	
☒	Alternative DEC (Commissioner approval) Approval date(s): 7/31/2017	22a-133k-2(d)(2)	AOCs 1-20 and 101-105
		→*Copy(s) of Approval(s)* ***must*** *be attached to VR*	
☐	Alternative DEC for PCBs (Commissioner approval) Approval date(s):	22a-133k-2(d)(7)	
		→*Copy(s) of Approval(s)* ***must*** *be attached to VR*	
☒	**DEC not applicable** – Inaccessible Soil (per 22a-133k-1(a)(32)) (polluted soil <15 ft bgs and ELUR has been recorded)	22a-133k-2(b)(3)	AOCs 7, 12, 101
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:6/27/2018		
	→*Copy of Certificate of Title page (with volume, page, and date recorded)* ***must*** *be attached to VR*		
☐	PCB polluted soil is inaccessible and remediated to the following:	22a-133k-2(b)(3)	
	☐ 10 ppm by weight (industrial criteria)		
	☐ 25 ppm by weight (if located on parcel which is another restricted access location defined in 40 CFR 761.123)		
	☐ 25 ppm by weight (if located at electrical substation defined in 40 CFR 761.123)		
	☐ 50 ppm by weight (if located at electrical substation and area labeled/noticed per 40 CFR Part 761)		
☐	**DEC not applicable** – Incidental Sources	22a-133k-2(b)(4)	
	☐ Incidental release due to normal operation of motor vehicles		
	☐ A result of normal paving and maintenance of pavement		

3. Compliance with DEC		22a-133k-2(e)	Applicable Release Area (RA) ID #'s
☒	95% UCL	22a-133k-2(e)(1)(A)	AOC 105
☒	All analyses of samples from RA ≤ DEC	22a-133k-2(e)(1)(B)	AOCs 1, 20, 102
☐	Matrix interference	22a-133k-2(e)(3)(B)	
	→Detailed summary must be presented in VR	22a-133k-2(e)(3)(C)	

4. Pollutant Mobility Criteria (PMC)				22a-133k-2(a)1(B) and k-2(c)	Applicable Release Area (RA) ID #'s
☒	Mass analyses of COCs other than inorganic or PCBs ≤ PMC			22a-133k-2(c)(1)(A)	AOCs 1, 7, 20, 102
☒	TCLP/SPLP analyses of inorganic COCs or PCBs ≤ PMC			22a-133k-2(c)(1)(B)	AOCs 1, 101, 102
☐	TCLP/SPLP analyses of COCs in polluted soil at or above seasonal low water table ≤ GWPC.			22a-133k-2(c)(2)(A)	
☐	TCLP/SPLP analysis of VOCs in polluted soil at or above seasonal low water table < 10x GWPC			22a-133k-2(c)(2)(B) (GA Area)	
	or				
☐	Mass analysis of soils polluted with VOCs in polluted soil at or above seasonal low water table < GA PMC x10 or alternative dilution factor (***All of the following must apply***↓)				
	☐	No NAPL present in RA, as determined pursuant to 22a-133k-2(c)(E)(3)			
	☐	Water table is ≥ 15' above bedrock surface, and			
	☐	Downward vertical flow velocity ≤ horizontal flow velocity,			
	AND either subset (B)(i) or (B)(ii) or (B)(iii) below (in their entirety)				
	B)(i)	☐	Public water within 200' of subject and adjacent parcels and any parcel within the areal extent of the RA plume	(aa)	
		☐	Groundwater within plume not used for drinking	(bb)	
		☐	No supply wells exists within 500' of RA, and	(cc)	
		☐	Not a potential public water supply resource	(dd)	
	B)(ii)	☐	Concentration of VOCs < GWPC within 75' of nearest downgradient property boundary	(aa)	
		☐	Areal extent of plume and concentrations of VOCs not increasing over any point in time, except for seasonal variations and natural attenuation	(bb)	
		☐	Notice has been provided to Commissioner that requirements have been met →This Verification Form may be considered the Notice. *Details must be documented and explained in the VR*.	(cc)	
	(B)(iii)	☐	Concentrations of VOCs< GWPC within 25' downgradient of RA, and	(aa)	
		☐	Notice of such condition has been provided to Commissioner →This Verification Form may be considered the Notice. *Details must be documented and explained in the VR*.	(bb)	

4. PMC (continued)		22a-133k-2(a)1(B) and k-2(c)	Applicable Release Area (RA) ID #'s
☐	TCLP/SPLP analysis of inorganic, semi-volatile, PCBs, or pesticides in polluted soil at or above seasonal low water table < GWPC x10 (or x dilution factor).	22a-133k-2(c)(2)(C) (GA Area)	
☐	Mass analysis of inorganic, semi-volatile, PCBs, or pesticide < GA PMC x 10 (***All of the following must apply***)		
	☐ Release area is ≥ 25' from downgradient property line		(ii) (aa)
	☐ NAPL is not present, and		(ii) (bb)
	☐ Water table is ≥15' above the bedrock surface		(ii) (cc)
☐	TCLP/SPLP analysis of substance above seasonal high water table (**no NAPL present**)	22a-133k-2(c)(2)(D)	
	☐ ≤ GWPC x10, **or**	(aa)	
	☐ ≤ GWPC multiplied by ratio of up and downgradient areas, **or**	(bb)	
	☐ ≤ GWPC multiplied by alternative dilution factor	(cc)	
☐	Site-specific dilution in GB area	22a-133k-2(c)(2)(E)	
	☐ Notice provided to Commissioner on details of application →This Verification Form may be considered the Notice. Details must be documented and explained in the VR. OR =>Date notice provided to the Commissioner:		
☒	Additional Polluting Substance (Commissioner approval) Approval date(s): 6/22/2018	22a-133k-2(c)(6) *→Copy(s) of Approval(s) must be attached to VR*	AOCs 1-20 and 101-105
☐	Alternative GA PMC (Commissioner approval) Approval date(s):	22a-133k-2(d)(3) *→Copy(s) of Approval(s) must be attached to VR*	
☐	Alternative GA Dilution or Dilution Attenuation Factor (Commissioner approval) Approval date(s):	22a-133k-2(d)(4) *→Copy(s) of Approval(s) must be attached to VR*	
☐	Alternative GB PMC (Commissioner approval) Approval date(s):	22a-133k-2(d)(5) *→Copy(s) of Approval(s) must be attached to VR*	
☐	Alternative GB Dilution or Dilution Attenuation Factor (Commissioner approval) Approval date(s):	22a-133k-2(d)(6) *→Copy(s) of Approval(s) must be attached to VR*	

4. PMC (continued)	22a-133k-2(a)1(B) and k-2(c)	Applicable Release Area (RA) ID #'s
☐	**PMC not applicable** – Incidental Sources	22a-133k-2(c)(5)
☐	Incidental release due to normal operation of motor vehicles	
☐	A result of normal paving and maintenance of pavement	
☒	**PMC not applicable** due to environmentally isolated soils	22a-133k-2(c)(4)(A) AOC 12
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:6/27/2018	
	→Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR	
☒	**PMC not applicable** - polluted fill (***All of the following must apply***)	22a-133k-2(c)(4)(B) AOC 105
☒	Such fill is polluted only with coal ash, wood ash, coal fragments, asphalt fragments, or any combination thereof;	
☒	Such fill is not polluted with any VOCs >applicable PMC;	
☒	The concentrations of each substance in any such fill is consistent with DEC requirements;	
☒	Such substance is not affecting and will not affect the quality of an existing or potential public water supply resource or an existing private drinking water supply;	
☒	A public water supply distribution system is available within 200 feet of such parcel and all parcels adjacent thereof; and	
☒	The placement of the fill was not prohibited by law at the time of placement.	
☐	**PMC not applicable** to substances other than VOCs (***The following must apply***)	22a-133k-2(c)(4)(C)
☒	80% of RA subject to infiltration for at least 5 years, or (I)	AOC 101
☐	Concentration of substance and extent of plume will not increase if anthropogenic feature removed, (Commissioner approval) (II)	
	Approval date(s):	→Copy(s) of Approval(s) must be attached to VR
	AND one or more of the following apply (4)(C)(ii):	
☐	GA: The GWPC and the SWPC has been achieved for 4 consecutive quarters	
☐	GB with GA concerns (groundwater in an Aquifer Protection Area or used as a source of public drinking supply): The GWPC and SWPC has been achieved for 4 consecutive quarters.	
☒	GB: The SWPC has been achieved for 4 consecutive quarters	
	AND **all** of the following must apply:	
☒	The groundwater sampling locations are representative of the plume and the areal extent of the plume that exceeds applicable criteria is not increasing over time	
☒	The concentration of substances is not increasing over time, and	
☒	The groundwater samples were collected from locations most likely to have been impacted by release	

5. Compliance with Pollutant Mobility Criteria		22a-133k-2(e)(2)	Applicable Release Area (RA) ID #'s
☐	95% UCL	22a-133k-2(e)(2)(A)	
☒	All analyses of samples from RA ≤ PMC	22a-133k-2(e)(2)(B)	AOCs 1, 7, 20, 101, 102
☐	Matrix interference	22a-133k-2(e)(3)(B)	
	→Detailed summary must be presented in VR	22a-133k-2(e)(3)(C)	

6. Other Provisions				Applicable Release Area (RA) ID #'s
☐	Remediation of Soils Polluted with Lead to 500 mg/K, **provided**:		22a-133k-1(g)	
	☐	Prior to 6/27/2013, such remediation had been initiated **or**		
		Date remediation was initiated (documented by date of Public Notice of Remediation):		
	☐	RAP had been completed for such release (Date RAP was submitted to DEEP):		
	☐ **AND**	On or before 6/27/2015, remediation for such release has been completed		
		Date remediation of such release was completed:		
☐	Widespread Polluted Fill Variance		22a-133k-2(f)(1)	
	Discussed in the VR in Section , page .			

7. Non-Aqueous Phase Liquids (NAPL)			Applicable Release Area (RA) ID #'s
☐	LNAPL removed to maximum extent practicable	22a-133k-2(g)	
☐	Any other NAPL removed to maximum extent prudent	22a-133k-2(g)	
Discussed in the VR in Section , page .			

Part V. Groundwater Remediation Standards

Check either #1, #2, or #3 below to indicate the final assessment of release determination and investigation completed at the subject property for all potential releases applicable to the pertinent date of this verification.

A. Groundwater Impact Determination and Plume Investigation

1. ☐ No Releases to Groundwater

All potential releases to groundwater applicable to the pertinent date of this verification have been investigated in accordance with prevailing standards and guidelines, including the SCGD or equal alternative approach, and groundwater has not been impacted.

☐ And soil remediation for PMC was not required. Therefore groundwater compliance monitoring was not required. If checked, skip to Part VI. [Receptors] below.

☐ However, soil remediation for PMC was required. Therefore groundwater compliance monitoring was required. If checked, skip to Part V. B. [Application of Groundwater Remediation Standards] below.

2. ☐ Releases to Groundwater –Remediation or other Compliance Measure was not Required

Substances, applicable to the pertinent date of this verification, were detected in groundwater, but all detected substances in groundwater were less than criteria before remediation or initiation of other compliance measure.

☐ The seasonal and three-dimensional distribution of all plumes associated with all releases applicable to the pertinent date of this verification have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

If #2 is checked, skip to Part V. B. below.

3. ☒ Releases to Groundwater – Remediation or other Compliance Measure was Required

Substances in groundwater, and associated with a release applicable to the pertinent date of this verification, exceeded criteria at any time.

☒ The seasonal and three-dimensional distribution of all plumes associated with all releases applicable to the pertinent date of this verification have been characterized in accordance with prevailing standards and guidelines, including the SCGD (Phase III Investigation) or equal alternative approach.

If #3 is checked, complete the information in the box below.

Criterion Exceeded		Category of COC		Compliance Measure	
☐	Background	☐	Non-chlorinated VOCs	☐	Air Sparging / Vapor Extraction
☐	GWPC	☐	Chlorinated VOCs	☐	Dual-Phase
☒	SWPC	☒	Metals	☐	Pump & Treat
☐	VolC	☒	PAHs	☐	Monitored Natural Attenuation
		☐	SVOCs	☐	ELUR
		☐	PCBs	☐	RSR Exemption
		☒	Petroleum Hydrocarbons	☐	Use of RSR Alternatives
		☐	Pesticides / Herbicides	☒	Other: Compliance monitoring completed after remediation.

4. If remedial measures were conducted to address Vapor Intrusion, complete box below:

	Remedial Measure	
Vapor Intrusion	☐ Sub-slab depressurization	☐ Indoor-air monitoring
	☐ Vapor barrier	☐ Alternative

B. Application of Groundwater Remediation Standards

*In order to validate the application of the Groundwater Remediation Standards, **all** subsections of B.1 below are expected to be completed.*

1. Application of Groundwater Remediation Standards			RCSA 22a-133k-3
☒	All plumes have been investigated in accordance with prevailing standards and guidelines, including the SCGD or equal alternative approach.		
☒	A sufficient quantity and quality of groundwater data has been collected to understand seasonal and dimensional groundwater conditions.		
☒	Groundwater monitoring has been completed in accordance with 22a-133k-3(g)		
☒	Groundwater monitoring was completed to determine the following: (mark all appropriate boxes below)		
	☒	The effectiveness of any soil remediation to prevent the pollution of groundwater from RA	3(g)(1)(A)
	☐	Not applicable. Remediation of soil was not necessary	
	☒	The effectiveness of any measures to render soil environmentally isolated	3(g)(1)(B)
	☐	Not applicable.	
	☒	The effectiveness of any remediation taken to eliminate or minimize risks associated with release, or risks identified in a risk assessment	3(g)(1)(C)
	☐	Not applicable. No remediation of environmental media was conducted	
	☐	That all substances in groundwater in a GA or aquifer protection area meet Background or GWPC, as applicable	3(g)(1)(D)
	☒	Not applicable. Groundwater in a GB area and not in aquifer protection area	
	☒	That all substances in groundwater meet SWPC and applicable VolC	3(g)(1)(E)
	☒	If a plume in GB area interferes with any existing uses of groundwater for a drinking water supply or any other existing uses, including but not limited to industrial, commercial or agricultural uses	3(g)(1)(F)
	☐	Not applicable. Groundwater is in a GA area	
☒	**The Verification Report documents and explains how the Groundwater Remediation Standards were achieved for each plume**.		

2. Compliance with Criteria for Groundwater			22a-133k-3(g)(2)(A)
☒	Compliance samples were collected after:		(i)
	☒	All remedial actions to achieve compliance with PMC and GWPC were complete	(i) (I)
	☒	No transient effects on hydraulic head	(i) (II)
	☒	Any changes to geochemistry stabilized and equilibrium conditions were established, AND i)	(III)
	☒	The concentrations of substances at each sampling location that represents the extent and degree of the plume were not increasing over time (except for natural attenuation or seasonal variation)	(i) (IV)
☒	Compliance samples were collected during 4 sampling events that reflect seasonal variability		(ii)
	☒	Completed in 1 year	
	☐	Completed in 2 years	
☐	A substance was detected in any one seasonal quarter > criteria		
	☐	Explained in VR, in Section , page .	

☐	Alternative Means to Demonstrate Compliance (Commissioner approval)	22a-133k-3(g)(2)(iii)	Release Area (RA) ID #'s or Site-Wide
	Approval date(s):		
		→Copy(s) of Approval(s) must be attached to VR	

2a. Groundwater Compliance not applicable – Incidental Sources 22a-133k-3(f)			Release Area (RA) ID #'s or Site-Wide
☐	Trihalomethanes resulting from releases of drinking water from public water supply system, or		
☐	Metals, petroleum hydrocarbons, or semi-volatile substances, provided such pollution is due to:		
	☐	Incidental release due to normal operation of motor vehicles	
	☐	A result of normal paving and maintenance of pavement	

3. Background Groundwater Quality 22a-133k-3(a)(1)(B) and k-3(a)(2)			Release Area (RA) ID #'s or Site-Wide
☐	Groundwater in GA area meets Background Groundwater Quality	22a-133k-3(a)(2)	
☐	Background Water Quality not required (see 4a. below)	22a-133k-3(d)	
☐	Exemption from Background due to Technical Impracticability	22a-133k-3(e)(1)	

4. Compliance with Background 22a-133k-3(g)(2)(B)				Release Area (RA) ID #'s or Site-Wide
☐	Sampling locations are representative of plume, **and**			
	☐	analytical results ≤ Background concentration for groundwater **OR**	(i)	
	☐	12 consecutive monthly samples from each sampling location are ≤ 95% UCL	(ii)	

4a. Compliance with Background not Required 22a-133k-3(d)(1) or (d)(2)				Release Area (RA) ID #'s or Site-Wide
☐	GWPC, not Background, is applicable at site ***(All of the following must apply)***		22a-133k-3(d)(1)	
	☐	The background concentration is ≤ GWPC;		
	☐	A public water distribution system is available within 200 feet of the subject parcel, parcels adjacent thereto, and any parcel within the areal extent of the plume;		
	☐	Such plume is not located in an Aquifer Protection Area; **AND**		
	☐	Such plume is not located within the area of influence of any public water supply well.		
☐	Groundwater remediation to Background not required ***(All of the following must apply)***		22a-133k-3(d)(2)	
	☐	All substances in plume ≤ GWPC prior to remediation		
	☐	The areal extent of the plume that exceeds applicable criteria is not increasing over time,		
	☐	The concentration of substances is not increasing over time,		

5. Groundwater Protection Criteria (GWPC) 22a-133k-3(a)(2)(A) and k-3(d)			Release Area (RA) ID #'s or Site-Wide
☐	Groundwater in GA area remediated to GWPC	22a-133k-3(d)(1)	
☐	Groundwater in GB area remediated to GWPC (groundwater used for drinking or other domestic purposes)	22a-133k-3(d)(3)	
☐	Additional Polluting Substance (Commissioner approval) Approval date(s):	22a-133k-3(h)	
		→Copy(s) of Approval(s) must be attached to VR	

6. Compliance with GWPC 22a-133k-3(g)(2)(B)				Release Area (RA) ID #'s or Site-Wide
☐	Sampling locations are representative of plume, **and**			
	☐	analytical results ≤ GWPC for groundwater **OR**	(i)	
	☐	95% UCL of arithmetic mean of all samples representing plume for 12 consecutive monthly samples is ≤ applicable criteria	(ii)	

7. Surface Water Protection Criteria (SWPC)		22a-133k-3(a)(1)(A) and k-3(b)	Release Area (RA) ID #'s or Site-Wide
☒	Groundwater ≤ SWPC (remediation not required)		Site-Wide
☐	Groundwater remediated to SWPC, **or** if required: ↓	22a-133k-3(b)(1)	
☐	Groundwater remediated to Appendix D of Water Quality Standards	22a-133k-3(b)(2)	

8. Compliance with SWPC			22a-133k-3(g)(2)I	Release Area (RA) ID #'s or Site-Wide
☐	Alternative SWPC used (of substance listed in Appendix D, WQS)		22a-133k-3(b)(3)(A)	
☐	Alternative SWPC (Commissioner approval) Approval date(s):		22a-133k-3(b)(3)(B)	
			→Copy(s) of Approval(s) must be attached to VR	
☒	Sampling locations are representative of plume, **and** ↓			
	☐	95% UCL of all samples representing plume is ≤ applicable criteria, **or**	(i)	
	☒	Discharge point of plume ≤ SWPC	(ii)	Site-Wide

9. Volatilization Criteria (VolC)			22a-133k-3(a)(1)(A) and k-3(c)	Release Area (RA) ID #'s or Site-Wide
☒	Groundwater polluted with VOCs ≤ Residential VolC		22a-133k-3(c)(1)	Site-Wide
☐	Groundwater polluted with VOCs ≤ I/C VolC (ELUR recorded)		22a-133k-3(c)(2)	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:			
	→Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR			
☐	Soil Gas Vapor Alternative		22a-133k-3(c)(3)(A)	
	☐	Soil vapor ≤ Res VolC , **or**	(i)	
	☐	Soil vapor ≤ I/C VolC (ELUR recorded)	(ii)	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner:			
	→Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR			
☐	Site-specific and Alternative VolC (Commissioner approval) Approval date(s):		22a-133k-3(c)(4)	
			→Copy(s) of Approval(s) must be attached to VR	

9. VoIC (cont.)			22a-133k-3(a)(1)(A) and k-3(c)	Release Area (RA) ID #'s or Site-Wide
☐	**VoIC exempt** (**all ↓ sub-requirements are applicable**)		22a-133k-3(c)(5)	
	☐	No buildings, plus best efforts to have all property owners to record ELUR	(A)(i)	
		Dates of Certificate of Titles for recordation of ELURs submitted to Commissioner:		
		→Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR		
		→ If all property owners did not consent to ELUR, documentation of Best Efforts must be attached to VR		
	OR			
	☐	No buildings can reasonably be built over plume or VOCs ≤ VoIC within 5 years (Commissioner approval) Approval date(s):	(A)(ii)	
			→Copy(s) of Approval(s) must be attached to VR	
	☐	Building exists, but Indoor Air Monitoring (Commissioner approval) Approval date(s):	(B)	
			→Copy(s) of Approval(s) must be attached to VR	
☐	**VoIC not applicable** (**all ↓ sub-requirements are applicable**)		22a-133k-3(c)(3)(B)	
	☐	Measures acceptable to Commissioner have been taken to prevent migration of vapors into any overlying building;		
	☐	A program is implemented to monitor and maintain all such measures; and		
	☐	Notice of such measures have been submitted to Commissioner on the prescribed form		
		Date Notice submitted to Commissioner:		
☐	**VoIC not applicable**		22a-133k-3(c)(1)	
	☐	VOC's not detected in groundwater		
	☐	VOC's detected in groundwater, but seasonally high water table is 15 feet or greater beneath ground surface or building		

10. Compliance with VoIC		22a-133k-3(g)(2)(D)	Release Area (RA) ID #'s or Site-Wide
☒	Compliance with VoIC in Groundwater	(i)	Site-Wide
	☒ Sampling locations are representative of plume, **and**		
	☒ analytical results ≤ applicable VoIC, as determined by 22a-133k-3(c)		
OR			
☐	Compliance with VoIC in Soil Vapor	(ii)	
	☐ Sampling locations and frequency are representative of soil vapor, including seasonal variability, **and**		
	☐ analytical results ≤ applicable VoIC		

11. Other Provisions			Release Area (RA) ID #'s or Site-Wide
☐	Application of DEEP "Policy on Up-Gradient Contamination" (8/28/97)	Policy on Upgradient Contamination	
☐	Variance of groundwater remediation due to Technical Impracticability (Commissioner approval) Approval date(s):	22a-133k-3(e)(2) →Copy(s) of Approval(s) must be attached to VR	
	Date Certificate of Title for recordation of ELUR submitted to Commissioner: →Copy of Certificate of Title page (with volume, page, and date recorded) must be attached to VR		

Part VI: Receptors

Groundwater Class: GB	Depth to Water Table: 2.6 - 22	Surface Water Class: B
Name of and Distance to nearest downgradient surface water body: Hockanum River, on-site		
Abutting land uses (check all that apply):	☒ Industrial ☒ Commercial ☒ Residential ☐ Agriculture	
Sensitive receptor land use within 500 feet of site (check all that apply):	☐ school ☐ childcare facility ☐ healthcare facility ☐ recreational ☒ residential ☐ Sensitive Water Resource (e.g. shellfish beds, public fishing areas, significant wetland complexes, public water supplies) ☒ other (specify): Anocoil Pond, Hockanum River	
If groundwater impacted, indicate number of water supply wells within 500 feet of site boundaries: 0		
Water Supply Well Receptor Survey completed and submitted to the Commissioner: ☐ Yes ☒ No		
Has a groundwater plume that originated on-site migrated off-site? ☒ Yes ☐ No		
Number of water supply wells impacted from releases originating from on-site source: 0		
Permanent potable water supply provided by:	☒ Water Main connection	Date: Historical
	☐ Filtration	Monitoring frequency:

Did any on-site release have the potential to impact an Ecological Receptor		☒ Yes ☐ No
If yes, were the potential ecological exposure pathways, where contaminants could affect aquatic and terrestrial life, evaluated		☒ Yes ☐ No
If yes, what level of evaluation was completed? ☐ Scoping ☐ Screening ☒ Risk Assessment		
	If yes, was the ecological receptor impacted by an on-site release?	☐ Yes ☒ No
	Was the impact mitigated?	☐ Yes ☐ No

Optional (no implication on validity of verification)

ASTM Standard for Greener Cleanups, E2893-13 (Nov. 2013)	
☐	Green Remediation Best Management Practices were considered.
☐	Green Remediation Best Management Practices were used in the course of site investigation and/or remediation.

Part VII: Certification

"In accordance with Section 22a-134a(g) of the CGS, I submit this Verification that has been signed and sealed by a licensed environmental professional (LEP), and the attached Verification Report, which has been approved in writing by a LEP, and other applicable documentation."

"I understand that this verification is being applied to the remediation of releases at the establishment as of:

Check applicable box

- ☒ The Date the Form III was filed
- ☐ The Date the Phase II Investigation was completed
- ☐ The Date the LEP signed and sealed this verification

and that this Verification does not attest to any release that may have occurred subsequent to the applicable date of the verification indicated above."

Howard A. Fromson	Chairman and CEO
Printed Name of Signatory for Certifying Party	Title
Howard A. Fromson	10/3/2018
Authorized Signature for Certifying Party	Date

Certifying Party: Rockville East Main Corporation

Address: 1 Gold Street, Apt. 14C

City/Town: Hartford State: CT Zip Code: 06103

Phone: 860-246-4629

e-mail: benderfromson@comcast.net

This completed form should be submitted to:

Remediation Division, 2nd Floor
Bureau of Water Protection and Land Reuse
Department Of Energy & Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Form III Verification Report
Former Anocoil Corporation
40 Brooklyn Street and 1 Court Street
(A.K.A. 60 East Main Street)
Vernon, Connecticut
DEEP Remediation No.: 12729, 12734, 3071

September, 2018

146 Hartford Road
Manchester, Connecticut 06040

Project No. 2001454.R30

FUSS & O'NEILL

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Former Anocoil Corporation

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List of Common Abbreviations

Units of Measurement	
ug	micrograms
mg	milligrams
kg	kilograms
L	liter
Analytical Parameters and Chemical Compounds	
ETPH	extractable total petroleum hydrocarbons
PAHs	polycyclic aromatic hydrocarbons
PCBs	polychlorinated biphenyls
SPLP	synthetic precipitate leaching procedure
SVOCs	semivolatile organic compounds
VOCs	volatile organic compounds
Regulatory Abbreviations	
DEC	direct exposure criteria
DEEP[1]	Department of Energy and Environmental Protection
ECAF	Environmental Condition Assessment Form
ELUR	Environmental Land Use Restriction
I/C	industrial/commercial
PMC	pollutant mobility criteria
RCRA	Resource Conservation and Recovery Act
RCSA	Regulations of Connecticut State Agencies
Res	residential
RSRs	Remediation Standard Regulations
SWPC	surface water protection criteria
USGS	United States Geological Survey
VC	volatilization criteria
Other	
AOC	area of concern
AST	aboveground storage tank
COC	constituent of Concern
QA/QC	quality assurance/quality control
UCL	upper confidence limit
UST	underground storage tank

[1] The Connecticut Department of Environmental Protection (CTDEP) was re-named the Department of Energy and Environmental Protection (DEEP) in July 2011. For convenience and consistency, we refer to the agency as the DEEP throughout this report, including the timeframe prior to July 2011.

1 Introduction

Fuss & O'Neill, Inc. has prepared this Form III Verification Report for the former Anocoil Corporation located at 40 Brooklyn Street and 1 Court Street (mailing address of 60 East Main Street) in Vernon, Connecticut (the Site). A portion of a United States Geological Survey (USGS) topographic map depicting the Site's location is provided as *Figure 1*, and a site map is provided as *Figure 2*.

The Site is owned by Rockville East Main Corporation and Brooklyn East Main, LLC. Ownership of the Site is explained further in *Section 1.2*. The business operations are owned and operated by Anocoil, LLC and consist of aluminum lithographic plate manufacturing operations housed in a two-story industrial building.

This report presents the information relied upon to support a Form III verification, rendered by a licensed environmental professional (LEP), that releases have been investigated in accordance with prevailing standards and guidelines and remediated in accordance with Connecticut's Remediation Standard Regulations (RSRs). The report was prepared in accordance with the Connecticut Department of Energy and Environmental Protection's (DEEP's) 2013 *Verification Report Guidance Document* and the 2016 Form III Verification Form.

The data compiled in support of this verification was gathered during investigations that focused on areas of concern (AOCs), locations at the Site where historical information, inspections, and information gathered from key site personnel indicated that release of hazardous materials or petroleum products may have occurred. The overall conceptual model for the Site is presented in the main body of this report, while supporting details and conceptual models for each AOC are presented in *Table 1*.

1.1 Certifying Party

This verification is being provided on behalf of Rockville East Main Corporation, the certifying party on two April 2016 Form III Property Transfer Law Filings and applies to the date of the attached verification.

1.2 Regulatory Program

Property and business owners for the Site are as follows:

- 40 Brooklyn Street – Owned by Brooklyn East Main, LLC
- 1 Court Street – Owned by Rockville East Main Corporation
- Business Assets – Owned by Anocoil, LLC

The Site qualifies as an "establishment" under the Connecticut Transfer Law and is therefore subject to the Connecticut Property Transfer program. This regulatory program, applicable RSR criteria, and DEEP approvals relevant to the verification are discussed in more detail in the following subsections.

1.2.1 Connecticut Property Transfer Law (CGS 22a-134)

On March 31, 2016, the name of Anocoil Corporation was changed to Rockville East Main Corporation and the following business and property transfers were conducted under Connecticut's Property Transfer Law:

- The business operations of Anocoil Corporation at 40 Brooklyn Street and 1 Court Street in Rockville, Connecticut were transferred to Anocoil, LLC (Remediation ID 12734).
- The real property located at 40 Brooklyn was transferred to a separate company, Brooklyn East Main, LLC, which is wholly owned by Howard A. Fromson (Remediation ID 12729).

Form III Property Transfer Law filings were made for the transfer of the business operations and the 40 Brooklyn Street real property with Rockville East Main Corporation identified as the certifying party. By certifying the Form IIIs, Rockville East Main Corporation agreed to investigate the Site in accordance with prevailing standards and guidelines and remediate the Site in accordance with Connecticut's RSRs.

On December 20, 2016, Rockville East Main Corporation received acknowledgement letters from the DEEP for the Property Transfer Law filings. The acknowledgement letters confirmed receipt of the Property Transfer Law filing packages and indicated that the oversight of the investigation and remediation of the parcels and business operations were automatically delegated to a licensed environment professional (LEP) unless further notice was provided within 75 days. No subsequent notice was provided, and Rockville East Main Corporation retained Mr. Brent J. Henebry, LEP of Fuss & O'Neill to supervise the investigation and remediation of the parcels and former business operations.

Property transfer filings on record with the DEEP for the Site are summarized below:

Summary of Property Transfer Filings for the Former Anocoil Corporation

Date Received by DEEP	Rem ID	Transfer Type	Seller/Buyer	Certifying Party	Oversight
1/13/1986	3071	Transfer in Liquidation of the Corporation	Antoinette Realty Company, Inc. / The Anocoil Corporation	Howard A. Fromson	Not specified*
4/7/2016	12729	Real Estate	Howard A. Fromson / Brooklyn East Main, LLC	Rockville East Main Corporation	LEP
4/7/2016	12734	Sale of Assets	Anocoil Corporation / Anocoil, LLC (F/K/A PA Acquisitions Holdco, LLC)	Rockville East Main Corporation	LEP

* An Environmental Condition Assessment Form (ECAF) was not filed; however, the Site is recorded by the DEEP as being in the Property Transfer Program with a notation that Anocoil is a "former backlogged site notified of the 10/1/95 ECAF provision."[2] Various correspondence with the DEEP between 1987 and 1999

[2] DEEP, 2012. CMS Data Request 4/26/2012

suggest that it was not clear whether the 1986 conveyance constituted a transfer subject to the Property Transfer Law. A handwritten note on the letter suggests that DEEP concluded that the conveyance was subject to the Property Transfer Law; however, no formal correspondence to Anocoil was identified.[3]

1.2.2 Form III Verification Details

Form III Verifications are applicable to releases that occurred up to one of following dates:

- The later of the date of the Form III filed with the DEEP or the completion of the Phase II investigation
- The date of the Form III Verification

This verification applies to the date of the Property Transfer Form filing (April 7, 2016). Soil remediation was completed in 2017. A copy of a survey depicting the Site is provided in *Appendix A*.

Previous Verifications

No previous verifications have been filed for the Site.

1.2.3 DEEP Approvals Relevant to the Verification

DEEP approvals and notifications relevant to the investigation, remediation, and verification of the Site are included in *Appendix B* and summarized below. The use of the approvals and notices in achieving investigation and cleanup objectives are also discussed as appropriate in *Sections 2, 4,* and *6*.

Date	DEEP Approval or Notification
December 20, 2016	Acknowledgement of receipt of a Business Only Form III and ECAF on April 7, 2016. A REM ID of 12734 was assigned.
December 20, 2016	Acknowledgement of receipt of a Real Estate Form III and ECAF on April 7, 2016. A REM ID of 12729 was assigned.
July 31, 2017	Approval of site-specific industrial/commercial direct exposure criteria (DEC) for benzo(a)pyrene (3 milligrams per kilogram (mg/kg).
June 8, 2018	Approval/transmittal of final ELUR for 40 Brooklyn Street
June 8, 2018	Approval/transmittal of final ELUR for 1 Court Street
June 22, 2018	Additional polluting substances approval.

[3] HRP, March 2015. Phase I ESA (pp. 24-25)

1.2.4 Connecticut Remediation Standard Regulations (RSRs) & Applicable Criteria

The Connecticut RSRs are the clean-up standards in the State of Connecticut, which contain numeric and narrative criteria for the remediation of soil and groundwater. They also include the opportunity for site-specific criteria, variances, and exceptions to address releases of hazardous substances. The following sections discuss the soil and groundwater criteria applicable to the Site and alternatives and variances to the default criteria that are being used to demonstrate compliance with the RSRs.

Soil remediation is regulated by substance and release area. A release area is defined as the area of polluted soil exceeding the analytical detection limit for a particular substance or site-specific background concentration if the substance is naturally occurring. The RSR Soil Remediation Standards (RCSA Section 22a-133k-2) require polluted soil at a release area to be remediated to the following criteria:

RSR Criteria Overview

RSR Soil Criteria	Description of Criteria Objectives	Alternatives to Compliance with Baseline Criteria Applicable to the Site
Direct Exposure Criteria (DEC)	DEC are applicable to soil within 15 feet of the ground surface. Soil impacted by a release is typically compared to the residential (Res) DEC unless alternatives or variances are applied.	Industrial/Commercial Criteria[1] Inaccessible Soil[2]
Pollutant Mobility Criteria (PMC)	The PMC protect groundwater from constituents leaching out of impacted soil and are dependent upon the groundwater quality classification of a site. Since the Site is located in a GB-designated area, the GB pollutant PMC were used. The GB criteria apply to soil located above the seasonal high water table.	Environmentally Isolated Soil[3] Variances for fill[4] Groundwater monitoring[5]
Removal of Non-Aqueous Phase Liquids (NAPL)	Section 22a-133k-2(g) of the RSRs requires that the removal of light non-aqueous phase liquids (LNAPL) from soil and groundwater be conducted in accordance with RCSA Section 22a-449(d)-106(f). The RSRs require that dense non-aqueous phase liquids (DNAPL) be removed to "the maximum extent prudent," with consideration for both cost and social and environmental benefits. Recoverable NAPL was not identified at the Site.	None

RSR Groundwater Criteria	Description of Criteria Objectives	Alternatives to Compliance with Baseline Criteria Applicable to the Site
Surface Water Protection Criteria (SWPC)	The SWPC ensure that surface water quality is not impaired by the discharge of contaminated groundwater into a surface water body. Compliance is demonstrated when one of the following conditions is met: • The 95 percent upper confidence limit (UCL) of the arithmetic mean of all sample results representative of the groundwater plume is equal to or less than the SWPC • The concentration of a substance in that portion of the plume which is immediately upgradient of the point at which groundwater discharges to the receiving surface water body is equal to or less than the applicable SWPC.	In instances where groundwater does not discharge to a surface water body on-site or just off-site, the downgradient property boundary is commonly used as the point of compliance.
Volatilization Criteria (VC)	Volatilization criteria protect human health from volatile substances (i.e. VOCs) in shallow groundwater that may migrate into overlying buildings and apply to groundwater within 15 feet of the ground surface or a structure intended for human occupancy. The residential (Res) VC apply unless a land use restriction is recorded. Groundwater at the Site is within 15 feet of the ground surface.	None

Description of Common Alternatives

1. **Industrial/Commercial Criteria –** If a property is used exclusively for industrial or commercial activities and an Environmental Land Use Restriction (ELUR) is recorded to prohibit residential use of such property, the industrial/commercial criteria may be applied. This applies to the DEC. Groundwater was not found to exhibit VOCs at concentrations above the residential VC.

2. **Inaccessible Soil –** The DEC for soil can be waived if the soil is considered inaccessible and an ELUR prohibiting disturbance of such soil is recorded. Inaccessible soil is defined follows:

    - More than four feet below the ground surface
    - More than two feet below a paved surface consisting of at least three-inches of bituminous concrete or concrete, which two feet may include the pavement sub-base
    - Polluted fill beneath a bituminous concrete or concrete surface consisting of at least three-inches of bituminous concrete or concrete if such fill meets the following criteria:
        - Semi-volatile compounds or petroleum hydrocarbons in the fill exceeding the DEC are normal constituents of bituminous concrete
        - Metals in the fill do not exceed two times the applicable DEC
        - No other compounds exceed the DEC
    - Beneath a building or DEEP-approved permanent structure

3. **Environmentally Isolated Soil –** Polluted soil beneath a building can be considered environmentally isolated if such soil is above the seasonal high water table, is not polluted with volatile organic substances (or, if such substances are present, they have been reduced in concentration to the maximum extent prudent), and is not a continuing source of contamination. The PMC do not apply to environmentally isolated soils, provided an appropriate ELUR is recorded to prohibit disturbance of the soil.

4. **Variance for Fill** – Section 22a-133k-2(c)(4)(B) of the RSRs include an exception from the pollutant mobility criteria for fill containing only coal, coal ash, wood ash, and/or asphalt fragments.

5. **Groundwater Monitoring** – For substances other than VOCs, Section 22a-133k-2(c)(4)(C) of the RSRs allows an exemption from the PMC based on four consecutive quarters of groundwater sampling under certain conditions that consider precipitation infiltration, compliance with applicable groundwater criteria, representativeness of sampling locations, and stability of the groundwater plume.

1.3 Compliance History

Fuss & O'Neill used Environmental Data Resources, Inc. (EDR), an environmental database search service, to review the Site's presence in various environmental databases. The June 21, 2018 EDR report is attached as *Appendix C*. A summary of regulatory compliance documentation available for the Site is provided below. Documentation associated with spills, underground storage tank (UST) registrations, hazardous waste handling, and other filings are included. Information pertaining to remediation programs and DEEP approvals is included in *Section 1.2*.

EDR Data Source	Details
Toxic Chemical Release Inventory System (TRIS)	*2016* Anocoil LLC/Presstek LLC was listed in the TRIS database as using nitrate compounds, nitric acid,
FINDS	NAICS Code: 332813 (electroplating, plating, polishing, anodizing, and coloring). SIC Code: 3471 (electroplating, plating, polishing, anodizing, and coloring).
NPDES	*1/20/1975* – Original permit issue date. *5/30/1989* – Original permit issue date. *9/9/1996* – Surface water discharge permit CT0020389 issued. Expired 9/9/2001. *8/7/2001* – Sewer discharge permit SP0001242 issued. Expired 8/7/2006. Renewed 8/11/2011 to 8/10/2016. *5/24/2006* – Industrial stormwater permit GSI002047 issued. Expired 10/1/2011. Renewed 10/1/2011 to 9/30/2018. *6/29/2016* – Industrial stormwater permit GSI0027537 issued. Expires 9/30/2018. *3/22/2004* – Permit for miscellaneous discharges transported to POTW less than 5,000 gallons per day. GMI000072 issued. Expires 10/30/2018.

EDR Data Source	Details
RCRA	*6/4/1986* – First small quantity generator notification date. *5/30/1990 to 2/12/1998* – Large quantity generator *Wastes*: ignitable waste, benzene
Enforcement	*1/21/1998* – Written informal state enforcement regarding pre-transport and manifests. Violation reported on 6/25/1996. Compliance reported on 6/24/1998. *1/9/2014* – Field notice of violation associated with industrial NPDES enforcement. *6/18/2015* – Enforcement/compliance activity recorded in the ICIS system; no additional details provided. ICIS activity dates of 1/9/1997 and 9/14/2006 reported. Notice of violation referencing a NPDES individual permit was listed under ICIS with no date or details.
AIR	9/22/1938 – Permit issue date for air quality registration. *10/19/2014* – AIR MINOR entry. *4/22/1986 to 12/16/2008* – Various inspections and evaluations with no additional details.
SIMS	*4/17/1996* – Registration start date under SIMS. *11/20/2006* – Permit issue. Expiration date of 12/2/2015. *8/11/2011* – Permit issue date. Expiration date of 8/11/2012. *9/22/2038* – Permit issue date.
UST	*25,000-Gallon Heating Oil UST (T01)* Installed 1/1/1950. Last Used 10/1/1989. Tank reported as removed. *25,000-Gallon Heating Oil UST (T02)* Installed 1/1/1950. Last Used 10/1/1989. Tank reported as removed.
LWDS	*Leachate and Wastewater Number: 4500006* Status listed as active. Flow listed as surface.
CT Property and CPCS	*1986 – Form III Property Transfer Program* Facility ID: 5173 | Remediation Master ID: 5411 | PTP Id: 1938 Date Form III received listed as 1/13/1986 with Antoinette Realty Co. as the seller and Howard Fromson as the buyer and certifying party. Remediation complete approved by DEP/verified by LEP listed in the CPCS database as 1/13/1986; however, the site was not remediated at that time and this entry is inferred to be an error. *2016 – Form III Property Transfer Program* Remediation ID: 12729 Form III received by DEEP on 4/7/2016. Howard Fromson was listed as the seller. Brooklyn East Main, LL C was listed as the buyer. Rockville East Main Corporation was listed as the certifying party. LEP lead. The business transfer with Remediation ID 21734 was not referenced in the EDR report.

EDR Data Source	Details
CT AUL	*12/19/2017* ELUR received by DEEP for review for both Brooklyn Street and Court Street properties.
MANIFEST	Hazardous corrosive waste liquid (440 gallons) | D002 1998 Hazardous waste lead solid (55 – 1,914 pounds) | D008 1992, 1997 Hazardous substance lead liquid (110 - 440 gallons) | D008 1986, 1992, 1998 Waste petroleum naphtha liquid (45 pounds) | D001 1987, 1989-1993 Waste combustible liquids (7-10 gallons) | D001 1994, 1996, 2000-2008 Waste combustible liquids (8 gallons) | D001 (ignitable waste), D018 (benzene), D039 (PCE), D040 (TCE) 2007 Waste combustible liquids (up to 8 gallons) | D039 (PCE) 2010-2011
SPILLS	*2/1/1993* – 2,000 gallons of No. 4 oil was contained and recovered following identification of a transfer line leak associated with a 13,000-gallon UST when a product inventory was performed. The release was reported as being to the ground surface/dyked area. TRI-S was hired to pump out oil/remove soil. No release to waterways. Based on the information presented, this releases was actually to the concrete containment associated with the 15,000-gallons AST. *5/16/1994* – Neutralization tank for WWTS overflowed into secondary containment where sump pumped spillage back into WWTS. The volume of the overflow was not specified. *3/13/1996* – 1 gallon of hydraulic oil spilled to the ground surface due to a hose failure and cleaned up with speedy dry. *12/6/1999* – 5 gallons of oil released to the Hockanum River. Details were not provided. *1/12/2015* – 1 gallon of hydraulic oil spilled to the ground surface due to a hose failure and cleaned up with speedy dry. *8/14/2017* – Asbestos notification. Contractor listed as Bestech Inc. and the hauler as TRI.

EDR Data Source	Details
Emergency Response Notification System (ERNS)	*2/15/1992* – A glass heat exchanger tube ruptured, releasing 1450 gallons of 25% sulfuric acid. The medium was listed as the Hockanum River. No additional details were provided. NRC Report 158270.
Spills to Hockanum River at Amerbelle, Directly Upstream of the Site	*4/23/1991* – An unspecified quantity of dye was spilled in the Hockanum River at the Amerbelle facility. *11/5/1992* – 100 gallons of "4 Spec Oil" was released when United Oil delivered oil into a port that connected to an abandoned piping system. 20 gallons drained into the Hockanum River TRI-S used booms and a vac-truck to contain and remove the oil in the river.. *4/18/1995* – Dark blue substance reported in river in the area of bridge work adjacent to the Amerbelle due to broken sewer main. *8/7/2013* – 400-600 gallons of transformer oil containing PCBs were released from a transformer area at the Amerbelle building and entered catch basins connecting to the Hockanum River. *12/20/2013* – 15 gallons of gasoline entered a storm drain at the corner of Grove Street and East Main Street, adjacent to the Amerbelle property. The gasoline could not be recovered.

1.4 Supporting Documentation

Key documents that describe investigation and remediation activities conducted at the Site and that support this verification are listed below along with a brief description of the contents of each document. Investigation and remediation details, including sampling rational and analytical data, are discussed in *Sections 2* and *4* and in the AOC summaries provided as *Table 1*.

Date/Consultant	Document Title and Content Description
December 1985 HRP Associates, Inc.	*Site Assessment Report – Anocoil Corporation* The report identified evidence of poor housekeeping and possible pipe leakage in the vicinity of the two 20,000-gallon fuel oil USTs. Potential asbestos was identified in the boiler room and the UST storage building. Potential impacts to the pond from upstream sources were also identified. The report recommended sampling in the vicinity of the USTs and the pond and construction of a berm by the acid feed line in the filling area.
January 1986 HRP Associates, Inc.	*Anocoil Corporation, Pond Sediment Sampling and Analysis* Two sediment samples collected from the pond contained lead based on EP toxicity analysis. Additional sampling was recommended.
February 1986 HRP Associates, Inc.	*Anocoil Corporation, Additional Soil Sampling and Analysis* A catch basin sediment sample (on East Main Street), composite surficial soil sample, and upgradient stream sediment sample were collected to identify the source of lead in the pond. The composite soil sample exhibited EP toxicity lead. The report concluded that the lead may have been related to past practices rather than highway runoff.
March 1986 HRP Associates, Inc.	*Sand Debris and Sediment Sampling and Analysis* Pond sediment and soil samples in the vicinity of building debris on the pond bank were analyzed for volatile organic compounds and EP toxicity metals. Nickel was detected at elevated concentrations in both samples.

Date/Consultant	Document Title and Content Description
March 2015 HRP Associates, Inc.	*Phase I Environmental Site Assessment*[4] Summarizes site history, manufacturing operations, and previous investigations. The Site history has been incorporated into *Section 2*.
July 2015 Fuss & O'Neill	*Phase II Environmental Site Assessment* Releases to soil and/or groundwater were identified at ten AOCs including wastewater treatment operations, acid/caustic storage, the former boiler room, former fuel oil USTs, historical operations (textile mill and foundry), and site-wide fill.
September 2015 Fuss & O'Neill	*Phase III Environmental Site Assessment* Releases to soil and/or groundwater were characterized at seven AOCs, including wastewater treatment operations, the former boiler room, former fuel oil USTs, historical operations (textile mill and foundry), and site-wide fill. Exceedances of RSR criteria were identified at five.
November 2016 Fuss & O'Neill	*Supplemental Investigations* Supplemental data was collected using soil borings and test pits to refine the understanding of fill, groundwater water impacts, and the extent of a minor release of tetrachloroethylene (PCE) to shallow soil. Targeted remediation of fill was recommended to address RSR direct exposure criteria as was continuing the groundwater monitoring program in progress. No additional actions to address the PCE were warranted.
February 2017 Fuss & O'Neill	*Remedial Action Plan* A remedial approach to address residual fuel oil impacts (AOCs 7, 12, and 101) and site fill (AOC 105) was outlined. The approach included targeted soil excavation, rendering soil inaccessible and environmentally isolated, and recording an ELUR. Following DEEP's approval of an alternative industrial/commercial DEC for benzo(a)pyrene, excavation of fill was eliminated from the remedial strategy as it was no longer required.
October 2017 Fuss & O'Neill	*Evaluation of Anocoil Pond/American Mill Pond* Sediment and surface water samples were collected from the on-site pond and upstream locations. The results indicated that constituents detected in the Anocoil Pond were consistent with conditions upstream of the Site and with what is typically encountered in urban surface water bodies.
August 2017 Fuss & O'Neill	*Remedial Action Report – AOC 7 Pipe Trench* The removal of approximately 30 tons of petroleum-impacted soil from a former pipe trench to achieve compliance with the PMC was documented. An ELUR was proposed to address soil below the water table that exceed the DEC.
May 2018 Fuss & O'Neill	*Baseline Ecological Risk Assessment* Presents findings of risk assessment activities conducted at the Anocoil Pond by Fuss & O'Neill and GZA. A risk of ecological harm was identified in Anocoil Pond; however, the risk was found to be typical of waterbodies located in industrial areas. Higher contaminant concentrations were typically identified in the upstream portion of the pond when compared to the portion of the pond present at the Site. No specific release mechanisms for pollutants to migrate to the pond from former Site processes have been identified, and the likelihood that former or current operations at the Site have contributed to pollutants to the pond is negligible. No additional investigation or remediation of Anocoil Pond were recommended.

[4] All of the previous HRP reports are summarized in the March 2015 Phase I ESA.

2 Final Conceptual Site Model

The Site is an industrial property that has been operated as a carriage factory (early 1900s), iron foundry (early 1900s), textile manufacturer (pre-1950) and, most recently, for the manufacture of aluminum printing plates. This final conceptual site model (CSM) combines information gathered during investigations to present a comprehensive evaluation of the Site. The CSM was developed to ensure that investigation activities were completed in accordance with prevailing standards and guidelines and to support our conclusions regarding RSR compliance. The presentation of the conceptual model is subdivided into the following elements:

- *Section 2.1 – Site Background Information:* Summarizes information typically identified during Phase I investigations and presents our understanding of conditions at the Site, including the Site history, environmental setting, and the process used to identify areas of concern.

- *Section 2.2 – Site Investigation Approach*: Provides an overview of the methods and rationale used to investigate the Site and includes an overview of the data quality objectives, potential release mechanisms, and investigative and analytical methods.

- *Section 2.3 – Site Characterization Summary*: Provides an overview of the results of release determination (Phase II) and characterization (Phase III) investigations.

- *Section 2.4 – Continued Applicability of the Conceptual Model*: Summarizes inspections and research conducted to confirm that confirm that new areas of concern had not developed since the remediation of the Site was completed.

AOC-specific findings compiled during Phase I, II, and III investigations are summarized on *Table 1*.

2.1 Site Background Information

The Phase I Environmental Site Assessment (ESA) was conducted in 2015 by HRP Associates, Inc. The information gathered during the Phase I ESAs was used to identify AOCs where hazardous materials or petroleum compounds may have been released to the environment and what impacts to anticipate during subsequent investigations. Details of the Phase I ESA are presented in the following subsections.

2.1.1 Physical Description

The Site is bounded by East Main Street (north), Court Street (west), and Brooklyn Street (south) in a Historic District Industrial zone of Vernon, Connecticut (Tolland County). A portion of a United States Geological Survey (USGS) topographic map showing the Site location is provided as *Figure 1*.

The Anocoil Site has a mailing address of 60 East Main Street and comprises two parcels totaling 5.32 acres:

- **1 Court Street** (1.02 acres) – This parcel was formerly owned by Anocoil Corporation (now Rockville East Main Corporation) and consists of a paved lot and adjacent landscaped areas on the northwest corner of the Site.
- **40 Brooklyn Street, a.k.a. 60 East Main Street** (4.3 acres) – This parcel is owned by Brooklyn East Main, LLC and is occupied by a manufacturing building and the eastern and southern portions of the Site, including a pond. The building is a two-story, L-shaped building of an approximately 37,000 square feet. The building has two floors and a basement. Anocoil Pond/Mill Pond is located on the eastern end of the Site and is at a higher elevation. The Hockanum River flows over a dam at the western end of the pond and beneath the facility, then through a concrete channel west of the facility (approximately 80 feet) before entering an underground concrete channel which extends off-site to the west beneath the 1 Court Street parcel.

A site map is provided as *Figure 2*. The Site is currently occupied by Anocoil, LLC, which manufactures aluminum printing plates.

Site Utilities

Utility/Service	Provider
Water	Municipal (Connecticut Water)
Sewage	Municipal sanitary sewer (since construction)
Heat	Natural gas (historically No. 4 fuel oil and coal)
Solid Waste	Local trash hauler
Waste Water	On-site treatment and discharge to municipal sewer

Surrounding Land Use

The surrounding land use is a mix of residential, commercial, and historically industrial properties. Adjacent land use is summarized below.

Direction from Site	Adjoining Property
North	St. Bernard Church and residential properties on the other side of East Main Street.
East	Former Amerbelle facility (textile manufacturing) and Daniels Mill (textile and fire retardant paint and mastic manufacturing) These facilities are potential sources of hazardous materials and petroleum products that could impact groundwater, surface water, and pond sediment quality at the Anocoil site.
South	Residential properties on the other side of Brooklyn Street.
West	Bank of America branch and parking lot on the other side of Court Street.

2.1.2 Site History

An overview of the Site's history is provided below[5]. Additional details regarding hazardous material use and specific processes are presented on *Table 1*.

Date	Site Use	Detailed History
40 Brooklyn Street		
1847 to late-1950s	Textile manufacturing	The American Mills Company manufactured cotton, yarn, wool, and worsted cloth at 40 Brooklyn Street. Sanborn mapping depicted weaving, spinning, dying, and drying operations. The facility was fueled by coal. The facility became M.T. Stevens & Sons, a manufacturer of woolen yarns, in the late-1920s or early-1930s.
1959 to Present	Aluminum printing plates	The Anocoil Corporation began operating the Site in 1959 and manufactures aluminum printing plates. Manufacturing operations include unspooling aluminum sheeting through a continuous process line that includes cleaning, brush graining, acid and water rinses, electrochemical graining, aluminum anodizing, rolling, and packing. Liquid waste, rinse water, and floor drain discharges are channeled to two collection pits in the basement and pumped to the waste water treatment system.
1 Court Street		
1847 to early-1960s	Railroad spur	A portion of the Vernon line of the N.Y. New Haven and Hartford Railroad entered the Site in the vicinity of the lower driveway and terminated at the building.
1885 to 1897	Carriage factory	Part of the 1 Court Street portion of the Site was occupied by the C.F. Weeks Carriage Factory.
1885 to between 1921 and 1947	Iron foundry	Part of the 1 Court Street portion of the Site was occupied by the H.B. Murlless Iron Foundry, which expanded after the carriage factory ceased operations. Foundry operations included a blacksmith, painting, trimming, pattern houses, and an oven house.
Late-1970s to 2004	Commercial offices	The 1 Court Street portion of the Site was occupied by a commercial office building. Occupants included Aldon Associates, Inc. Child Abuse Prevention Center, Family Relations, Juvenile Matters, and Public Defender. The building was demolished in 2004. Joint compound was found to contain asbestos and asbestos removal was reportedly conducted prior to demolition.

2.1.3 Description of AOCs

A total of 26 AOCs, 20 associated with Anocoil operations and six associated with historical operations, were identified at the Site based on historical documents and a site inspection. A description of each AOC is presented in *Table 1*. Locations of the AOCs are shown on *Figure 2*.

[5] HPR, March 2015. Phase I Environmental Site Assessment (pp. 1-3, 35-42)

2.1.4 Constituents of Concern

A list of COCs to be investigated was developed for each AOC. The constituent list comprises those compounds most likely to be released based on knowledge of site operations and results of historical investigations. AOC-specific COC lists are summarized on *Table 1* and include subsets of the following:

- Volatile organic compounds (VOCs)
- Petroleum hydrocarbons (ETPH)
- Polycyclic aromatic hydrocarbons (PAHs)
- Polychlorinated biphenyls (PCBs)
- Cyanide
- pH
- Metals (aluminum, antimony, arsenic, barium, cadmium, chromium, copper, hexavalent chromium, lead, mercury, nickel, selenium, silver, and zinc)

2.1.5 Environmental Setting

Physiographic Setting

The portion of the Site occupied by the building and parking lots is level. The northeastern, eastern, and southern edges of the Site slope down steeply towards the building. In some areas, terraces and retaining walls have been constructed. The Hockanum River flows onto the Site from the east, cascading over a bedrock outcrop beneath the Amerbelle facility into Anocoil Pond (aka American Mill Pond). The Anocoil Pond is located behind a dam upstream of the Anocoil manufacturing facility at an elevation approximately 20 feet higher than the ground level of the facility. The Hockanum River flows beneath the Site and is exposed in an open, concrete channel approximately 80 feet long on the west side of the building before entering an underground concrete culvert. This concrete culvert travels approximately 1,200 feet to the southwest before it daylights.

Surficial Geology

Surficial material at the site is mapped as thin till[6]. During Phase II and III investigations, fill ranging from 1 to 20 feet thick was encountered over much of the Site. The fill was generally sandy with varying amounts of silt, gravel, brick, concrete, coal, ash, and miscellaneous debris (glass, plastic, ceramic, wood).

Bedrock Geology

Bedrock beneath the site is mapped as Glastonbury Gneiss, a gray, medium- to coarse-grained, massive to well-foliated granitic gneiss[7]. Drilling refusal on suspected bedrock was encountered at depths ranging from 5.5 to 12.5 feet. Bedrock outcrops are visible adjacent to the pond on the eastern portion of the Site. Near the main entrance on the northern edge of the Site, where the ground elevation is significantly higher, a soil boring was advanced to a depth of 20 feet without encountering refusal.

[6] Connecticut Environmental Conditions Online (CTECO), 2015.

[7] Rodgers, 1985. Bedrock Geological Map of Connecticut.

Site Hydrogeology

Depth to groundwater at the Site ranges from approximately 2.6 to 22 feet below grade and is deepest on the western end of the Site (MW-14). Groundwater flow is generally toward the Hockanum River, which flows through the Site (see *Figure 3*); however, the river is encased in a concrete culvert that inhibits the discharge of on-site groundwater to the river, and, based on groundwater elevation measurements at the Site has affected groundwater flow. As groundwater approaches the culvert, it turns downstream, toward the west.

Groundwater flow velocities range from approximately 7.90 to 9.70 feet per day (ft/day). Velocity calculations were based on the following information:

$$velocity(v) = \frac{K \times dh/dl}{n}$$ where:

K (hydraulic conductivity) = 28.3 ft/day for predominantly sandy soil containing silt and gravel[8]

n (porosity) = 0.40 (40 percent) for sandy material that may contain silt and gravel[9]

dh/dl_E *(hydraulic gradient)* = 0.111 to 0.137 ft/ft based on groundwater elevation measurements between MW-06 and MW-05 and between MW-023 and MW-07 in June 2016.

Water Quality Classifications

Groundwater Classification

The quality of groundwater beneath the subject site is classified by the DEEP as GB[10]. Such groundwater is presumed not to be suitable for human consumption without treatment and is used for industrial process water and cooling waters[11].

Surface Water Classification

The nearest surface water body is the Hockanum River, which flows through the Site. The Hockanum River is classified by the DEEP as Class B[12]. Designated uses of such inland surface waters are for recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation[13].

[8] Freeze & Cherry, 1979. Groundwater.
[9] Freeze & Cherry, 1979. Groundwater.
[10] CTECO, 2015.
[11] CTDEP, 2011. Water Quality Standards.
[12] CTECO, 2015.
[13] CTDEP, 2011. Water Quality Standards.

2.2 Site Investigation Approach

Phase II/III investigations were conducted at 24 of the 26 AOCs identified during the Phase I assessment. The methods and rationale used to investigate the Site are detailed in the following subsections.

2.2.1 Data Quality Objectives

Data quality objectives (DQOs) are used to ensure that data is collected in a manner that permits it to be used to evaluate a site and support decisions based on those evaluations. The objective of Phase II investigations was to identify releases based on analytical data. The objectives of Phase III investigations were to characterize the degree and extent of identified releases. Procedures used to ensure that the DQOs for the project were met include:

- Development of preliminary conceptual models based on Phase I research, release mechanisms, and migration pathways to guide investigations
- Selection of sampling locations and COCs appropriate to the potential release area
- Use of background data to evaluate AOC-specific results
- Use of multiple lines of evidence to close data gaps and support conclusions
- Selection of analytical methods with appropriate detection limits
- Use of pre-determined procedures for sample handling, custody, data management, and documentation
- Use of trip blanks, equipment blanks, duplicates, and laboratory matrix spikes (MS) for quality assurance/quality control (QA/QC)
- Beginning in 2007, use of the Connecticut Reasonable Confidence Protocol laboratory methods and completion of Data Quality Evaluations and Data Usability Assessments in general accordance with DEEP guidance to verify the quality of the data.

2.2.2 Release Mechanisms and Migration Pathways

Release mechanisms for each AOC are identified on *Table 1*. The general types of release mechanisms present at the Site include the following:

- Surficial releases from spills during the transfer of materials at loading docks/bays (paved areas) and storage tanks, releases from pad-mounted transformers and ASTs, and incidental spills associated with general material handling.
- Shallow subsurface releases from drains and sumps in loading areas, acid/base tank areas, and wastewater conveyance areas in the building.
- Subsurface releases from fuel oil USTs and associated piping

- Fill containing coal and ash is in direct contact with native soil and, in some cases, is present below the water table.

2.2.3 Sampling Rationale

Phase II sampling was generally conducted on an AOC-by-AOC basis with the sampling rationale guided by the preliminary conceptual model developed during the Phase I assessment, potential release mechanisms, and probable migration pathways. *Table 1* outlines the sampling approach for each AOC. In general, the following rationale was used to evaluate the potential for releases at the Site:

- **Surficial Spills –** Shallow soil, either at the ground surface or just below pavement or flooring was sampled at areas exhibiting staining indicative of a release or at areas where a spill would be likely to migrate (e.g. low areas, cracks, etc.).
- **Subsurface Releases –** Soil samples were collected from the depth the release was most likely to have occurred (e.g. below the base of a UST or sump) and as close as possible to the probable source.
- **Fill –** Representative samples of the fill were collected.
- **Evidence of Impacts –** If, during drilling, evidence of impacted soil was observed, samples were collected and the conceptual model updated as necessary.

Additional Lines of Evidence

In some instances, physical limitations of the setting (e.g. location of equipment or limited access for personnel or power equipment) prevented the collection of samples from ideal locations. Additional lines of evidence were used to close data gaps associated with the identification of releases. Such supplemental lines of evidence included:

- **Groundwater Sampling –** Groundwater samples collected downgradient from AOCs such as the acid tank farm (AOC 2) and wastewater treatment operations (AOC 1)) were used to evaluate the potential for releases to have occurred, particularly in areas where access limitations prevented the collection of soil samples.
- **Detailed Evaluation of Historical Information –** Where possible, historical documentation (including historical sampling results) and information gathered from site personnel were used to focus investigations and determine whether COCs could have been released and the most likely pathway to environmental media.
- **Physical Inspections –** Thorough inspections were used to narrow the scope of investigation and identify evidence of migration pathways for COCs.

2.2.4 Investigation Methods

AOC Inspections

AOC locations are shown on *Figure 2*. The AOCs were inspected in April 2015 to evaluate the most likely points for releases of hazardous substances or petroleum products and possible migration pathways. During the inspections, specific attention was given to materials present, manufacturing processes and raw material/waste management, evidence of releases (e.g. staining, residue, etc.), and migration pathways (e.g. cracks in the floor). Where the potential for releases of hazardous materials or petroleum products to the environment was determined to be non-existent or highly unlikely, no further action was recommended. Where it was determined that there was a reasonable potential for a release to have occurred, investigations targeting the area most likely to be impacted and analysis for AOC-specific constituents of concern were conducted.

Soil Sampling

A total of 184 soil samples were collected from 140 locations via direct-push drilling and hand sampling during Phase II/III investigations.

Direct-Push Sampling

Soil borings were drilled using a direct-push drilling rig. Soil samples were collected continuously from the ground surface using a 60-inch, stainless steel sampler. Each soil sample was inspected by a field scientist from Fuss & O'Neill for physical evidence of contamination, such as staining or odors. Where VOCs were a potential constituent of concern, samples were also field screened using a photoionization detector (PID). If visual inspection and field screening did not yield evidence of impacted soil, samples were selected for laboratory analysis from predetermined intervals based on the conceptual release model for each AOC. Soil boring logs are included in *Appendix D*.

Hand Sampling

Soil samples were collected by hand at locations where only surficial soil samples were required (SS-101 through -140) and from locations that could not be accessed using a drilling rig (all interior locations, SB-32 through -35, and SS-01 and -02). Surficial soil samples were collected using a dedicated plastic trowel. Deeper samples were collected using a hand auger or slide-hammer to drive a two-foot, stainless-steel sampler to the desired depth interval. At interior locations, a concrete coring machine was used to core through the concrete floor slab to access underlying soil. Soil logging, screening, and sampling were conducted as for direct-push sampling described above.

Test Pits

In order to further evaluate the nature of fill in certain areas of the Site, test pits were excavated to allow for both sampling and the direct inspection of in-situ fill materials. Observations were documented on a field log, and sidewall and bottom samples were collected as warranted to provide supplemental data. Excavated material was returned to the test pit following sample collection. Test pit logs are included in *Appendix D*

Monitoring Well Installation and Development

Fuss & O'Neill installed 18 groundwater monitoring wells (MW-01 through -18) at the Site using a direct-push drill rig and hand tools. Six of the monitoring wells were installed in May 2015, during Phase II investigations. The remaining 12 monitoring wells were installed in June 2016 as part of Phase III investigations. The monitoring wells were constructed with PVC riser and ten feet of 1.5-inch diameter, pre-packed PVC screen or standard 2-inch diameter, 10-slot, PVC well screen. The wells were installed so that the water table intersected the screen sections. Each monitoring well was finished with flush-mount curb boxes. Monitoring well construction details are summarized on *Table 2*. Well completion logs are included in *Appendix D*

Monitoring wells MW-16, -17, and -18 were installed by hand in the basement of the building at AOC 12 (Former Boiler Room) because the area was not accessible to a drill rig. Refusal on bedrock was encountered at shallow depths up to 2.75 feet below grade. The wells were installed primarily to assess for the presence of separate phase petroleum product in the vicinity of the former fuel oil pipe trench. The wells were gauged using an interface probe over four quarters, and no petroleum was detected.

Monitoring Well Development

Monitoring wells were developed immediately after installation using surge-and-purge techniques to remove suspended sediments from the well and to increase the hydraulic connection between the wells and the aquifer.

Groundwater Sampling

77 groundwater samples were collected from 14 site monitoring wells over ten groundwater sampling events between May 2015 and May 2018.

Prior to groundwater sampling, the depth to water at each well was recorded. A Fuss & O'Neill hydrogeologist sampled each well with a peristaltic pump and dedicated tubing using low-flow sampling techniques. Groundwater indicator parameters including pH, specific conductivity, dissolved oxygen, temperature, turbidity, and oxidation/reduction potential were monitored and allowed to stabilize prior to sample collection.

The goal for turbidity was 5 ntu or less. At wells where a turbidity of 5 ntu could not be achieved, samples were not filtered unless the turbidity remained above 10 ntu, even after extended purging. In such instances sample aliquots to be analyzed for metals were field filtered using a 10-micron filter, which allows for the passage of smaller, mobile particles in groundwater. Sample aliquots to be analyzed for other parameters (VOCs, ETPH, and PAHs) were not field filtered. In instances where suspended silt was suspected to result in anomalous detections of organic compounds, resampling was conducted.

Ecological Risk Assessment

As part of the ecological risk assessment of the Anocoil Pond (aka American Mill Pond), Fuss & O'Neill scientist collected four sediment samples and four surface water samples as follows:

- 3 sediment samples (SED-01, -02, and -03) and 3 surface water samples (SW-01, -02, and -03) were collected from the Anocoil Pond at its downstream margins. The Anocoil Pond was drawn down below the dam so that the Anocoil Pond could be safely traversed by boat. Surface water samples were collected as the Anocoil Pond was refilling, which may have resulted in slightly elevated turbidities.
- 1 sediment sample (SED-04) and 1 surface water sample (SW-04) were collected from the Paper Mill Pond upstream of Amerbelle.
- Sediment samples were analyzed for VOCs, SVOCs, ETPH, metals (RCRA 8 plus aluminum, copper, nickel, and zinc), and total organic carbon. Water samples were analyzed for both total and dissolved metals as well as general chemistry parameters (hardness, alkalinity, etc.).
- A sample could not be collected from the Hockanum River downstream of the Anocoil Pond because of the lack of a depositional environment below the dam and before the river entered a concrete culvert that runs beneath the Site and several downstream commercial properties for over one quarter mile.

Samples were also collected by HRP in 1986 and GZA in 2015 as part of pond investigations:

- **1986** – HRP Associates collected samples for EP Tox metals and VOCs from several locations (P-1, P-2, UP-1, A-1A, and A-B).
- **2015** – GZA collected three surface water and sediment samples from the Amerbelle side of the Anocoil Pond (SED/SW-1, -2, and -3) and three from Paper Mill Pond (SED/SW-4, -5, and -6)

2.2.5 Use of Background Data

To properly evaluate the analytical data generated during this and previous investigations, site background concentrations were established for compounds that naturally occur in the environment and for groundwater flowing onto the Site from upgradient areas. Background concentrations were assessed for soil, sediment, and groundwater as described below:

Soil Background

Connecticut soils naturally contain varying concentrations of metals; consequently, a comparison of detected concentrations of metals to site-specific background concentrations is typically conducted to determine if a release has occurred; however, thick fill, impacted by metals as well as ETPH and PAHs, is present across the Site. *Table 3* provides a comparison of the concentrations metals, ETPH, and PAHs across the site to the concentrations of the same compounds in areas impacted solely by fill. When evaluating whether a reported concentration of a compound was likely to be indicative of a release, we considered both the fill data and following concentrations of metals in soil that, based on our experience, tend to represent typical background soil for Connecticut:

Typical Background Metals Concentrations

Metal	Typical Background in Connecticut (mg/kg)
Arsenic	<5
Barium	<200
Cadmium	Not detected
Chromium	<25
Copper	<50
Lead	<50
Mercury	Not detected
Nickel	<25
Selenium	Not detected
Silver	Not detected
Zinc	<200

Sediment and Surface Water Background

In order to evaluate sediment and surface water data collected from the pond, background sediment and surface water samples were collected from Paper Mill Pond, located upstream of the Site and from the upstream side of the Anocoil pond Amerbelle property. The samples were analyzed for VOCs. SVOCs, ETPH, and metals as well as general chemistry parameters. Summaries of background sediment and surface water analytical data are presented on *Tables 4* and *5* respectively.

Groundwater Background

Monitoring wells MW-06 and MW-10 are located upgradient of most site operations and are most representative of background groundwater quality for the Site. A summary of background groundwater results collected from these two locations in 2015 is provided below. If groundwater samples from other on-site wells exhibited concentrations of COCs inconsistent with the range of background, a release was inferred to have occurred.

Summary of Constituents in Background Groundwater

Constituent	MW-06 5/4/2015	MW-10 6/26/2015
Field Parameters		
pH (su)	6.63	6.93
Specific Conductance (uS/cm)	1316	1865
Metals (mg/L)		
Aluminum	0.258	0.835
Arsenic	<0.004	<0.004
Barium	0.311	0.102
Cadmium	<0.001	<0.001
Chromium	<0.001	0.007
Copper	<0.005	0.015
Lead	<0.002	0.003
Mercury	<0.0002	<0.0002

Constituent	MW-06 5/4/2015	MW-10 6/26/2015
Nickel	0.005	0.007
Selenium	<0.010	<0.010
Silver	<0.001	<0.001
Zinc	0.01	0.011
ETPH (mg/L)	<0.070	<0.070
VOCs (ug/L)	ND	ND
PAHs (ug/L)		
Benzo(a)anthracene	<0.02	0.02
Other SVOCs (ug/L)	ND	ND

2.3 Site Characterization Summary

Investigations were conducted at 24 AOCs to determine whether releases had occurred, characterize the lateral and vertical extent of identified releases, evaluate impacts to potential receptors, and determine whether remediation would be required to meet RSR cleanup objectives. *Table 1* summarizes the conceptual model for each AOC, including investigation activities and an evaluation of RSR compliance. Summaries of analytical data for each AOC are provided in the following tables:

- *Table 6a* – Summary of Detected Constituents in Soil at AOCs 1-5, 9-11, 14-16, 18, 19, 103, and 104
- *Table 6b* – Summary of Detected Constituents in Soil at AOCs 7, 8, and 12
- *Table 6c* – Summary of Detected Constituents in Soil at AOCs 20 and 102
- *Table 6d* – Summary of Detected Constituents in Soil at AOC 101
- *Table 6e* – Summary of Detected Constituents in Soil at AOC 105 (Fill)
- *Table 7a* – Summary of Constituents Detected in Groundwater North of the Hockanum River
- *Table 7b* – Summary of Constituents Detected in Groundwater South of the Hockanum River
- *Appendix D* – Soil Boring Logs and Laboratory Analytical Reports

Sampling locations are shown on *Figure 4*. Releases were identified at eight AOCs. An overview of the AOCs where releases were identified is provided below. AOCs where release constituents exceeded baseline RSR soil criteria are discussed in more detail in the following subsections.

Identified Releases

AOC	Released Constituents	Baseline RSR Soil Criteria Exceeded		
		Res DEC	I/C DEC	GB PMC
Anocoil Operations				
AOC 1 Wastewater Treatment	Caustics	---	---	---
	Aluminum	---	---	---
	PCE	---	---	---

AOC	Released Constituents	Baseline RSR Soil Criteria Exceeded		
		Res DEC	I/C DEC	GB PMC
AOC 7 Former 20,000-Gallon Fuel Oil USTs	ETPH PAHs VOCs	■ ■ ---	■ ■ ---	■ ■ ---
AOC 12 Former Boiler Room (Basement)	ETPH PAHs	■ ■	■ ■	■ ■
AOC 20 PCE Release Area	PCE	---	---	---
Historical Operations				
AOC 101 Foundry and Pattern Shop	ETPH PAHs Arsenic	■ ■ ■	■ ■ ■	--- --- ---
AOC 102 Textile Mill	Styrene SVOCs Metals	--- --- ---	--- --- ---	--- --- ---
AOC 105 Site-Wide Fill	ETPH PAHs Metals	--- ■ ---	--- --- ---	--- --- ---
Receptor AOC				
AOC 106 Anocoil Pond	See *Section 2.3.4*	*	*	*

*The pond is a receptor rather than a true AOC. RSR criteria do not apply to pond sediment. An ecological assessment of the pond was conducted and is discussed in *Section 2.3.4*.

2.3.1 AOCs 7 and 12 (Fuel Oil USTs and Boiler Room)

Two No. 4 fuel oil USTs (AOC 7) were historically located on the north side of the building and supplied fuel oil to boilers in the basement of the building (AOC 12) via subsurface piping. As described in *Table 1*, the boilers are no longer operational, having been replaced by a natural gas boiler on the northeast side of the building, and the USTs were removed in 1989 along with an unspecified quantity of petroleum-impacted soil.

Phase II/III investigations conducted in this area indicated that residual petroleum impacts were present, below the water table except at the following locations (see *Table 6b* for data):

- **Pipe Trench by SB-48** – Soil below the pipe trench at a depth of 4-8 feet below grade was suspected to be impacted by a minor release of petroleum. ETPH and PAHs at this location exceeded the baseline GB PMC and industrial/commercial DEC. The constituents were similar to fill; however, ETPH and 2-methlynaphthalene concentrations at SB-48 appeared elevated

with respect to nearby samples impacted solely by fill. 2-Methylnaphthalene is a constituent found in fuel oil that is not typically present in fill.

During groundwater sampling in April 2017, several small droplets of petroleum were observed in the purge water from MW-13, located adjacent to the former UST area; however, no measurable LNAPL was identified using an interface probe. The appearance of the petroleum was suspected to be associated with the mobilization of residual petroleum during rising water tables following a period of extreme drought. Additional evaluations were conducted as follows:

- MW-13 was gauged with an interface probe and purged again in June 2017 to determine if product could be recovered. No product was detected with the interface probe and only small pinhead-sized droplets of petroleum were occasionally observed during purging.
- MW-13 was monitored quarterly from August 2017 to May 2018 as part of a post-remediation monitoring program. During that time period, no LNAPL was detected with an interface probe, and only small pinhead-sized droplets of petroleum were occasionally observed November 2017 and May 2018 under pumping conditions (less than a teaspoon over the sampling period).

In total, oil droplets were observed in four out of eight monitoring events between June 2016 and May 2018. No sustainable recoverable product was identified. No indication of product was identified in any other monitoring wells in the area. An ELUR is in place that prohibits the disturbance of the impacted soil in this area. In addition, SWPC compliance has been demonstrated at the downgradient property boundary.

- **Pipe Trench and Sump in the Boiler Room** – Oil staining was observed in the pipe trench in the basement floor. Soil samples collected below the pipe trench and an adjacent sump also exhibited petroleum staining and elevated concentrations of ETPH and PAHs (primarily 2-methlynaphthalene) relative to site-fill. ETPH and PAH concentrations exceeded the baseline GB PMC and industrial/commercial DEC.

  Because ETPH was detected at 23,000 mg/kg, three monitoring wells (MW-16, MW-17, and MW-18, shown on *Figure 4*) were installed by hand to assess for the presence of separate phase petroleum. The presence of shallow bedrock beneath the building resulted in wells depths ranging from approximately 1.5 to 2.75 feet deep. The wells were gauged for product in June, September, and December 2016 and March 2017 using an interface probe. Low water tables resulted in the wells being dry on most occasions; however, no evidence of petroleum was observed when water was present:

Product Gauging at AOC 12

Location	June 2016	September 2016	December 2016	March 2017
MW-16	Dry	Dry	Dry	No product
MW-17	Dry	Dry	No product	No product
MW-18	No product	No product	Dry	No product

Based on the results of field investigation, it was determined that remediation and/or administrative controls would be necessary to achieve compliance with the industrial/commercial DEC throughout the

release area and the GB PMC in the vicinity of the pipe trench beneath the building and along a small portion outside the building.

2.3.2 AOC 101 (Foundry and Pattern Shop)

Petroleum-impacted soil was encountered at SB-45 and MW-15 at depths ranging from 10 to 16 feet below grade. Based on soil borings SB-67, SB-68, and MW-11, the impacted area appeared to be limited to the immediate vicinity of SB-45 and MW-15 (see *Table 6d* for data). The source of the release is not known but may have been associated with the historical foundry or other historical operations prior to the placement of the fill. Concentrations of ETPH and PAHs exceeded the baseline GB PMC and industrial/commercial DEC. Arsenic was also present at the same depth at concentrations atypical of the fill and exceeded the DEC (but not the GB PMC based on SPLP analysis).

Section 22a-133k-2(c)(4)(C) of the RSRs provide an exception to the PMC provided the following conditions are met:

(i) Such release area is located in an area in which at least 80 percent of the release area has been subject to infiltration, and not obstructed by anthropogenic features, for a minimum of five years.

The entire release area is unpaved. Based on the size of trees in the area and the steep slope of the hillside, it is not likely that this area has been obstructed by anthropogenic features since the Anocoil facility was constructed.

(ii) The analytical results of four consecutive quarterly samples of groundwater for such substance, for a GB area, are all less than the SWPC.

Monitoring well MW-15, installed in the release area at a depth of 23 feet below grade (on the bedrock surface), did not yield water. Four quarterly rounds of groundwater samples were collected from monitoring wells MW-02 and MW-11, located at the downgradient edges of the release area, in 2016-2017. ETPH was not detected. PAHs were detected during that time frame only at MW-11 during the first and last quarters at trace concentrations well below the SWPC. Analytical results are summarized on *Table 7a*.

(iii) The groundwater sampling locations are representative of the areal extent of the groundwater plume and the areal extent of such groundwater plume which exceeds an applicable remedial criterion is not increasing over time.

The steep topography at the release area limits access to mechanized equipment. MW-02 and -11 are located directly downgradient and adjacent to the release area. The release dates back to before the placement of the fill and groundwater at these two monitoring points indicates minimal, if any, impacts. The detected constituents are also consistent with what would be expected in an area of extensive fill containing coal and ash.

(iv) The groundwater samples are collected at locations where groundwater is most likely to have been impacted by such substance from the release area.

As indicated above, monitoring wells MW-02 and -11 are located adjacent to the release area and are between the release area and the river and represent locations most likely to exhibit impacts from the release area.

Based on the above information, the PMC do not apply to AOC 101. It was also determined that remedial activities or administrative controls would be required to achieve compliance with the industrial/commercial DEC for soil below a depth of ten feet.

2.3.3 AOC 105 (Site-Wide Fill)

Urban fill materials consisting of native gravel, sand and silt particles with varying proportions of ash, coal, asphalt, brick, concrete, and occasional other debris were observed throughout both 40 Brooklyn Street and 1 Court Street as described below.

Fill Thickness

Location	Approximate Fill Thickness
Northeastern portion of the Site *(between the building and the pond)*	Generally less than 5 feet
Western portion of the Site *(bounded by the building, Court St., and East Main St.)*	Up to 25 feet
Southern corner of the Site *(adjacent to Brooklyn Street)*	Less than 2.5 feet
Southeastern Hill Side *(Between Brooklyn Street and the pond)*	At least 2 feet

Soil samples representative of the fill were collected across the Site and analyzed for compounds potentially associated with fill (VOCs, ETPH, PAHs, PCBs, and metals). The fill was found to be impacted by ETPH, PAHs, and metals; VOCs and PCBs were not detected in association with the fill.

Table 6e summarizes the constituents detected in fill. Note that fill was identified in nearly all site borings based on either physical observations during drilling or chemical analyses of soil samples; however, the table includes data from only locations and depth intervals that did not exhibit evidence of petroleum impacts (which also exhibit ETPH and PAHs) in order to provide a more accurate representation of the chemical composition of the fill. *Table 3* also shows the relative concentration of constituents in fill compared to constituents detected in all soil samples site-wide.

Test pits were conducted in areas where the highest concentrations of PAHs were detected in shallow fill (TP-108, -119 and -136). At each location, a test pit was excavated to a depth of at least four feet below grade (seven feet at TP-136). Observations confirmed the presence of coal and ash along with brick and glass in a sandy to silty matrix but no evidence of petroleum or other potential sources of contaminants.

Typical fill at the Site – Test pit at TP-119 location.

Direct Exposure Criteria

An ELUR prohibiting residential use of the Site was recorded; therefore, the industrial/commercial DEC apply to fill at Site. The DEEP also approved an alternative industrial/commercial DEC for benzo(a)pyrene in July 2017. For most of the constituents detected in the fill, all of the samples results met the industrial/commercial DEC. For the following metals and PAHs, the 95 percent upper confidence limit (UCL) was calculated using ProUCL to demonstrate compliance with the industrial/commercial DEC:

Fill Constituents for Which the 95 Percent UCL was Used to Demonstrate Compliance with the Industrial/Commercial DEC

Constituent	Industrial/ Commercial DEC	95% UCL in Fill
Metals (mg/kg)		
Arsenic	10	6.663
Lead	1,000	342.9
PAHs (ug/kg)		
Benzo(a)anthracene	7,800	1,698
Benzo(a)pyrene	[[3,000]]	1,632
Benzo(b)fluoranthene	7,800	2,493
Dibenzo(a,h)anthracene	[1,000]	467.6
Indeno(1,2,3-CD)pyrene	[7,800]	1,547

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria

ProUCL is a statistical software package provided by the United States Environmental Protection Agency and recommended for use by the DEEP. The data sets used to calculate the UCL for each of the above constituents and the ProUCL output are provided in *Appendix E*. Based on the fill data and UCL calculations, the Site fill meets the industrial/commercial DEC.

Pollutant Mobility Criteria

Section 22a-133k-2(c)(4)(B) of the RSRs provides an exception from the PMC for fill polluted solely with asphalt fragments, coal, and wood/coal ash provided the following conditions are met:

(i) Such fill is polluted only with coal ash, wood ash, coal fragments, and asphalt paving fragments, or any combination thereof

Our investigations have indicated that the only source of contaminants in the fill are those listed above.

(ii) Such fill is not polluted with any volatile organic substance which exceeds an applicable pollutant mobility criterion

Analysis of the fill shows that it is impacted by ETPH, PAHs, and metals but not VOCs. VOCs detected at the site are attributed to sources other than fill and have been evaluated separate from the fill.

(iii) The concentration of each substance in any such fill is consistent with the requirements established in subsection (b) of this section [direct exposure criteria]

The 95 percent upper confidence limits of ETPH, PAHs, and metals detected in fill meet the industrial/commercial DEC. On July 31, 2017, the DEEP approved a site-specific industrial/commercial DEC of 3 mg/kg for benzo(a)pyrene based on new EPA toxicological data. The 95 percent UCL for benzo(a)pyrene meets this criterion.

(iv) Such substance is not affecting and will not affect the quality of an existing or potential public water supply resource or an existing private drinking water supply

The Site is located in a GB-classified groundwater area, and the 1982 Atlas of Public Water Supply Sources and Drainage Basins of Connecticut shows no public water supply wells within 0.5-mile radius of the Site.

(v) A public water supply distribution system is available within 200 feet of such parcel and all parcels adjacent thereto

The Site is located in an urbanized area where municipal water is available to the Site and the surrounding area.

(vi) The placement of the fill was not prohibited by law at the time of placement

Aerial photographs indicate that filling along the river channel west of the facility occurred in the early- to mid-1900s. Based on the distribution of fill across the entire Site and the historical development of the Site before 1900, much of the fill was likely placed earlier. No evidence to suggest that such placement was prohibited by law has been identified.

Based on the above information, the PMC do not apply to the fill.

2.3.4 AOC 106 – Anocoil Pond

The Anocoil Pond, also known as American Mill Pond ("Anocoil Pond"), is an approximately one acre pond on the Hockanum River and is located on the 40 Brooklyn Street parcel behind a dam upstream of the Anocoil manufacturing facility and at an elevation approximately 20 feet higher than the ground level of the current facility. A historical textile mill also straddled the river below the dam. The only known uses of the Anocoil Pond were for process and cooling water and possibly power generation.

View of the Anocoil facility and Anocoil Pond discharge looking west from the top of the Anocoil Pond dam.

Sited on the uplands adjacent to the upstream side of the Anocoil Pond are two former industrial facilities, Amerbelle (a former textile manufacturer) and Daniels Mill (a former textile mill and manufacturer of fire retardant paints and mastics). The

Hockanum River flows from the upstream Paper Mill Pond, under Route 31 and the Amerbelle facility, and into the Anocoil Pond.

The majority of the Anocoil Pond is owned by Brooklyn East Main, LLC, which owns the 40 Brooklyn Street property. The eastern edge of the Anocoil Pond lies on the former Amerbelle property, now owned by the Town of Vernon.

View of the Anocoil Pond looking east from the top of the dam. The former Amerbelle facility is in the background. The Hockanum River inflow to Anocoil Pond under the Amerbelle facility is to the right. The former Daniels Mill is to the left.

Documented Releases to the Anocoil Pond

Documented releases to the Anocoil Pond from upstream sources or to the Hockanum River just upstream of the Anocoil Pond include the following:

- A 1983 spill report submitted to the Connecticut Department of Energy and Environmental Protection (DEEP) indicated that barrels of chemicals were reportedly dumped into the deep area of the Anocoil Pond upstream of the sluiceway at Amerbelle. No other information was available.
- Four spills of more than ten gallons from the Amerbelle facility that impacted the Hockanum River have been documented[14]:
    - January 1991 – 100 gallons of aqua ammonia was released from an aboveground tank.
    - April 1991 – An unspecified quantity of dye was released and impacted the river.
    - November 1992 – 100 gallons of No. 4 fuel oil were released and entered the river via a pipe.
    - May 1997 – 80 gallons of hydraulic oil were released and impacted the river.
- In December 1999, vandalism of two drums resulted in the release of 110 gallons of glue from 98 East Main Street (Daniels Mill).
- A tank fell through the floor of the Daniels Mill into the Anocoil Pond (date unknown). The tank was observed during drawdown of the Anocoil Pond in 2016 to facilitate work on the dam.

[14] Levine-Fricke, 2002. *Phase I Environmental Site Assessment, 1, Court St. Vernon; Project No. 015-12016-00-001*; p. 15.

Historical Investigations

Historical investigations from 1985 through 2015 related to the Anocoil Pond portion of the Anocoil Site are summarized in the table below:

Historical Pond Investigations (1985 – 2015)

Date	Source	Details *(Refer to Figure 5 for Known Sampling Locations)*
December 1985	HRP Site Assessment Report	Mr. Cousans (Anocoil plant manager), interviewed by HRP, indicated that the Anocoil Pond had been used as a dumping area for a variety of materials (including drums, which appear to be the drums referenced in the 1983 spill report above) and that oil spills had occurred upstream of the Anocoil Pond. No dumping has been referenced as originating from the Anocoil property. HRP indicated that the Anocoil Pond sediments could potentially be contaminated and recommended sediment samples.
January 1986	HRP Pond Sediment Sampling and Analysis	Two sediment samples were collected from the bottom of Anocoil Pond and analyzed for VOCs and EP Tox cadmium, chromium, lead, and mercury: • P-1 (vicinity of suspected dumping) • P-2 (near the dam wall) Lead was detected at both locations. The EP Tox lead in sample P-2 (0.15 mg/L) was considered to be within drinking water standards. At P-1, the reported EP Tox concentration (1.75 mg/L) was considered to be hazardous based on DEEP guidelines at the time because it was 30x the drinking water standard. The source was unknown and hypothesized to be related to dumping, road runoff ("past studies" reporting lead associated with such runoff at 0.96 ppm were referenced), or a release at Amerbelle.
February 1986	HRP Additional Soil Sediment Sampling and Analysis	Three sediment samples were collected in an effort to identify the source of lead: • CBU-2 (catch basin on E/ Main, upgradient of the Anocoil Pond) • GC-1 (surficial soil composite adjacent to E. Main) • UP-1 (stream sediment upgradient of pond) Approximate sample locations are shown on *Figure 2*. Total lead was detected in all three samples. EP Tox lead was not detected in either of the upgradient samples. Lead was detected at GC-1 at 1.34 mg/L (EP Tox). The total lead reported at GC-1 was 434.9 ppm (compared to 24.9-85.7 ppm at the other locations).

Date	Source	Details *(Refer to Figure 5 for Known Sampling Locations)*
March 1986	HRP Sand Debris and Sediment Sampling and Analysis	Composite samples were collected from the Anocoil Pond and a pile of sand on the east (upstream) bank of the Anocoil Pond as follows: • A-1A (composite pond sediment analyzed for EP Tox metals) • A-B (composite pond sediment analyzed for EP Tox metals and VOCs) No metals or VOCs were detected in the Anocoil Pond sample(s). • A-2A (composite sand pile analyzed for EP Tox metals) • A-2B (composite sand pile analyzed for EP Tox metals and VOCs) Nickel was detected in the sand pile at 19.8 and 80.2 mg/L. HRP indicated that the DEEP considered nickel concentrations between 10 and 30 ppm to be contaminated and nickel concentrations over 30 ppm to be hazardous. HRP recommended additional delineation and disposal of the sand pile. The sand pile was referenced as being on the east bank of the Anocoil Pond, which suggests it may have originated from the Amerbelle property. There is no practically feasible way to transport material uphill from the Anocoil facility to the east side of the Anocoil Pond along the hillside. Inspections have identified debris that appeared to have originated from the Amerbelle facility above.
March 2015	HRP Phase I ESA	Previous investigations were discussed and Amerbelle was listed as a recognized environmental condition (REC) because of potential waste disposal to the river and Anocoil Pond.

Based on historical documentation of releases and the results of past investigations, the primary risks to the pond were suspected to be associated with upstream sources. In order to further evaluate potential ecological risk to the pond, an ecological risk assessment was conducted in 2017/2018. The results of the assessment are presented in *Section 3.4*.

2.3.5 Site Groundwater

Fourteen monitoring wells were installed at the Site in 2015 and 2016 (see *Table 2* for well construction details). Well locations are shown on *Figures 3* and *4*. *Table 7a* summarized groundwater quality on the north side of the Hockanmum River between May 2015 and April 2017. *Table 7b* summarizes groundwater quality south of the river during the same time period.

Groundwater North of the River

Five rounds of groundwater samples were collected from monitoring wells north of the river between May 2015 and April 2017 (*Table 7a*). Groundwater north of the river has been impacted by low concentrations metals, PAHs, and sporadic detections of VOCs:

- **Metals and PAHs** – The only metals detected were aluminum, barium, lead, nickel and zinc. The metals and PAHs are inferred to be associated primarily with site fill, which contains coal fragments and ash.

- **VOCs –** The only VOCs detected were chloromethane (two detections up to 2.3 ug/L) and toluene (one detection of 1.5 ug/L). No specific source for the VOCs has been identified and the detected compounds were not reproduced in the same monitoring well twice between 2015 and 2017.

None of the concentrations of constituents reported during the monitoring period exceeded either the baseline SWPC or residential VC.

Groundwater South of the River

Five rounds of groundwater samples were collected from monitoring wells south of the river between May 2015 and April 2017 (*Table 7b*). Groundwater between the building and the Hockanum River has been impacted by metals, ETPH, PAHs, and VOCs:

- **Metals**:
    - Aluminum was detected in every groundwater sample collected south of the river, with background concentrations up to 0.835 mg/L detected at upgradient monitoring wells (MW-06 and MW-10). Investigations inside the building identified no significant soil contamination beyond the probable release of caustics. The highest concentrations of aluminum (13.8 to 52.6 mg/L) were reported at MW-05, located just north of the building. The pH reported at MW-05 was also relatively low (5.38) compared to the average south of the river (6.47), suggesting that the aluminum in groundwater may be associated with the mobilization of naturally occurring aluminum by groundwater with a low pH due to releases of acids.
    - Other metals (including arsenic, barium, chromium, copper, lead, are associated primarily with fill.
- **ETPH** – ETPH was detected in monitoring wells MW-03, -07, -08, and -13, all of which are located within the area impacted by historical petroleum release from AOC 7 (former fuel oil USTs). Concentrations of ETPH generally ranged from 0.1 to 1.7 mg/L, except for one event in April 2017, where ETPH was detected at MW-13 at 250 mg/L; however, the water table was low, resulting a turbid sample, and the ETPH may have been associated with suspended silt. Subsequent monitoring (post-remediation), exhibited concentrations in the 0.79 to 2.1 mg/L range.
- **PAHs** – PAHs were detected at most monitoring locations and were associated with both fill and the historical petroleum releases at AOC 7. As with ETPH, the highest concentrations were detected at MW-03, -07, -08, and -13. Anomalous PAHs concentrations at MW-13 in April 2017 were also suspected to be caused by fine silt in the sample.
- **VOCs** – Detected VOCs were primarily aromatic compounds and were detected at MW-07 and -13, with a trace of carbon disulfide detected at MW-08 in June 2015. The VOCs are associated with the fuel oil releases at AOC 7.

The Hockanum River is contained in a concrete culvert from the building to a point more than a quarter mile downstream of the Site. The conduit is expected to serve as a barrier to groundwater flow, and, as shown by the groundwater elevation contour map (*Figure 3*), groundwater does turn to the east-southeast along the conduit. Based on groundwater elevation contours, monitoring well MW-14 is located on the downgradient side of the Site and represents groundwater quality migrating off-site. As shown on *Table 7b*, concentrations of constituents in MW-14 did not exceed applicable groundwater criteria except during December 2016, where a turbid sample resulted in anomalous PAH detections. A resample in January 2017 confirmed that the PAH detections were anomalous.

Post-remediation monitoring, conducted following soil removal in July 2017, is discussed in *Section 4.2.4*.

2.4 Continued Applicability of the Conceptual Model

An environmental database search service (Environmental Data Resources Inc. (EDR)) was used to access publicly available environmental databases maintained by various Federal, State, and local agencies on June 21, 2018. A copy of the information provided by EDR relative to the Site is provided as *Appendix C*.

Our review of the EDR report indicated that no spills of hazardous substances or petroleum products or changes in waste handling practices occurred between the March 2015 Phase I ESA and the submittal of the Property Transfer Form III on April 7, 2016; therefore, the information presented in this conceptual model is sufficient to support verification to the date of the Form III.

3 Receptor Assessment

An assessment was conducted to evaluate the potential for sensitive human health or ecological receptors at or directly downgradient of the Site. Our findings are summarized in the following subsections.

3.1 Potable Wells

The potential for groundwater near the Site to be used for drinking water was assessed. The results are summarized below:

- **Public Water Supply Sources –** The Atlas of Public Water Supply Sources and Drainage Basins of Connecticut[15] shows no public water supply wells within 0.5-mile radius of the Site. The March 2015 Phase I ESA by HRP reported one federal public water supply system well (CT0480092) located approximately one-quarter mile west of the Site based on an environmental database search from EDR. No other information was available, and HRP indicated that no other sources of information indicated a public supply well in this area. The

[15] CTDEP, 1982.

EDR report did note that the public water supply (PWS) system location is not always the same as the well location.

- **Private Drinking Water Supply Wells –** A potable well survey has not been conducted; however. the Site is located in an urbanized area where municipal water is available to the Site and the surrounding area.

3.2 Significant Environmental Hazards

No significant environmental hazards were reported at the Site.

3.3 Vapor Intrusion

VOCs were not detected in site groundwater at concentrations that could result in potential vapor intrusion into buildings constructed over the groundwater contact plume.

3.4 Ecological Risk Assessment Anocoil Pond

As noted in *Section 2.3.4*, the Anocoil Pond is an approximately one acre pond located on the Hockanum River behind a dam on the upstream side of the Site. The majority of the Anocoil Pond is located on the Site; however, the eastern edge of the Anocoil Pond lies on the former Amerbelle property, now owned by the Town of Vernon.

The pond receives flow from the Hockanum River, which flows from Paper Mill Pond, under Route 31, and beneath the Former Amerbelle Mill Property before discharging to Anocoil Pond. The pond elevation is approximately 20 feet above improved portions of the Site; therefore, the potential for releases or discharges to have reached the pond from current or former operations at the Site have been determined to be minimal to non-existent. Conversely, upstream industrial facilities, including the former Amerbelle Corporation (a former textile manufacturer) and Daniels Mill (a former textile mill and manufacturer of fire retardant paints and mastics), have reported numerous releases of contaminants, including potential waste disposal directly to Anocoil Pond.

Ecological risk assessment activities were conducted at the Anocoil Pond on two occasions:

- April 2015 – GZA conducted sampling at the upstream end of the Anocoil Pond during assessment of the Amerbelle facility located above the pond.
- 2017/2018 – Fuss & O'Neill collected additional samples from the pond as part of a Baseline Ecological Risk Assessment (BERA). The Fuss & O'Neill BERA is included as *Appendix F*.

Results typical for a surface water body in an urban industrial area were identified as described below:

- Results of sediment analysis were used to predict risk of harm to the benthic macroinvertebrate community:
    - No risk of harm to the benthic invertebrate community was identified in the on-site portion of Anocoil Pond.
    - Risk of harm to the benthic community was identified for Anocoil Pond as a whole, and is driven by the results of the off-site samples. Concentrations of contaminants found in sediment were generally highest in background samples and samples collected from the off-site portion of Anocoil Pond.

- Results of surface water analysis were used to predict risk of harm to aquatic organisms:
    - Risk of harm to the aquatic invertebrate community was identified for both the on-site portion of Anocoil Pond and Anocoil Pond as a whole. This risk is primarily driven by detections of dissolved aluminum and barium and pyrene.

- To evaluate risks to upper trophic level species, doses associated with exposures to contaminated sediments and surface water were estimated for three wildlife receptor species: the American robin, short-tailed shrew, and red-tailed hawk:
    - Risk of harm to the American robin and short-tailed shrew evaluated exposure from sediments, surface water, and food items (invertebrates). Based on the relatively small home ranges of these species, Anocoil Pond was assumed to be 100 percent of their home range. Risk of harm to individuals of both the American robin and short-tailed shrew was identified.
    - Red-tailed hawk exposure is based on ingestion of smaller prey that was assumed to have been exposed to contaminants. Based on the large home range (1,035 acres) of the red-tailed hawk, prey exposed to COPECs in Anocoil Pond was only expected to comprise a tiny portion of their normal diet. No risk of harm was identified for the red-tailed hawk at Anocoil Pond.

Mitigating Factors

As is typical of waterbodies located in industrial areas, a risk of ecological harm has been identified in Anocoil Pond. Higher contaminant concentrations were typically identified in the upstream portion of the pond when compared to the portion of the pond present at the Site. Based on the following mitigating factors, additional investigation or abatement of sediment or surface water was determined to be unwarranted:

- *Negligible Risk to Species Populations*: While risk of harm to some species may exist, the risk is limited to local or meta-populations and does not necessarily extend to the greater wildlife population. Instead, it is more likely that this would be a population "sink," meaning that individuals adversely affected by the elevated contaminant concentrations are replaced by other individuals of subsequent generations. Furthermore, the potential risk is not exclusive to the Anocoil Pond but is also associated with the background location. Because this risk is present in

areas upstream of Anocoil Pond, a qualitative assessment indicates that the relative risk to upper trophic level populations associated with Anocoil Pond is negligible.

- *Up Stream Conditions*: Chemical analytical testing of on-site and off-site (upstream) sediments indicate that areas upstream of the Anocoil parcel generally contain higher concentrations of contaminants. Upstream sediments and related contaminants, as well as any upstream contaminated groundwater or surface water discharges, will continue to be sources of contamination until those sources are addressed, and any attempt to address existing sediment and surface water conditions at the Anocoil Pond would not be successful.

Ecological Risk Conclusions

Based on the upstream location of the pond on the Site, the elevation of the pond more than 20 feet above the elevation of where industrial activities were conducted at the Site, and a review of historical activities, no specific release mechanisms for pollutants to migrate to the pond from former Site processes have been identified, and the likelihood that former or current operations have contributed to pollutants to the pond is negligible. Based on this and the mitigating factors presented above, no additional investigation or remediation of Anocoil Pond is warranted.

3.5 Other Sensitive Land Uses

Sensitive land uses evaluated included the following:

- **Endangered Species –** No potential threatened or endangered species habitats are present at the Site or within 0.25 miles of the Site.[16]
- **Wetlands –** The CTECO website did not identify mapped wetland soils at the Site; however, it is possible that wetlands could be present adjacent to the pond.
- **Hockanum River –** The nearest surface water body is the Hockanum River, which is located on the Site and encased in a concrete culvert. A pond is also located on the eastern portion of the Site. See *Section 3.4* for a discussion of the ecological risk assessment conducted at the pond.
- **Aquifer Protection Areas –** No aquifer protection areas were identified within a 0.5-mile radius of the Site.[17]

4 Remedial Activities

Remedial activities conducted at the Site included the following:

- Excavation of petroleum-impacted soil

[16] CTECO, 2015.
[17] CTECO, 2015.

- Recording ELURs to prohibit residential use of both the 1 Court Street and 40 Brooklyn Street parcels and prohibit the disturbance of inaccessible and environmentally isolated soil

Remediation details are summarized in the following subsections.

4.1 Public Notice of Remediation

Public notice of remediation was conducted on June 9, 2017 and consisted of the following:

- Notification published on June 9, 2017 in the Journal Inquirer . The notice also included notification of the intent to record an ELUR.
- Letter sent to the local director of health.
- Posting of a sign at the site for a period of 45 days.

Documentation of the public notice is provided in *Appendix G*.

4.2 Description of Remedial Activities

Remedial activities were conducted at three AOCs (AOC 7, 12, and 101). Remedial activities are summarized on *Table 1* and in the following sub-sections.

In addition to active remediation, an ELUR prohibiting certain activities as a result of conditions at AOCs (7, 12, 101, and 105) was recorded on the land records for the Site. ELUR details are discussed in *Section 6.1*.

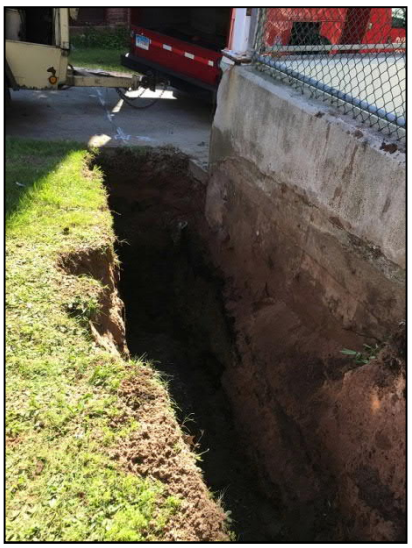
4.2.1 AOC 7 (Former UST) – Soil Excavation and Soil Rendered Inaccessible

The two No. 4 fuel oil USTs at AOC 7 were removed in 1989 along with an unspecified quantity of soil that was transported to Manchester Landfill. Soil borings drilled in this area in 2015 and 2016 confirmed that petroleum-impacted soil in the vicinity of the USTs was excavated to the water table (refer to *Table 6b*) and that residual petroleum-impacted soil remained above the water table only along a portion of the former pipe trench. ETPH and PAHs in soil above the water table at soil borings MW-04 and SB-48 exceeded the industrial/commercial direct exposure criteria and the GB pollutant mobility criteria.

Remediation of the former pipe trench was conducted on July 31, 2017. The excavation area is shown on *Figure 6*. Entities involved in the remediation and their responsibilities included the following:

- **Fuss & O'Neill** oversaw remediation activities and conducted confirmatory soil sampling.
- **CorBuilt** of Canterbury, Connecticut was subcontracted by Fuss & O'Neill to locate underground utilities and subsurface structures in the work area prior to initiating excavation.

- **R&R Landscaping** of Ellington, Connecticut was sub-contracted by Fuss & O'Neill and conducted the excavation and disposal of impacted soil.
- **Clean Earth of Connecticut** in Plainville, Connecticut received contaminated soil for disposal.



Pipe trench excavation. View looking east. The wastewater tank enclosure is to the right.

Details of the remediation are provided below:

- The area excavated extended along the north side of the wastewater treatment tank enclosure from a catch basin at the northwest corner to the concrete driveway to the east.
- The excavation was approximately four feet wide.
- The top four feet of soil and fill was excavated and stockpiled on polyethylene sheeting for reuse in the excavation. The material was generally light brown sandy fill with varying amounts of gravel, coal, and coal ash. Darker fill with higher quantities of coal and ash was more prominent below a depth of approximately three feet.
- A steel pipe, approximately one-half inch in diameter was encountered approximately four feet below grade.
- The only evidence of a release was a petroleum odor in soil beneath the pipe in the vicinity of soil boring SB-48, where ETPH had previously been detected above baseline RSR soil criteria.
- Soil below the pipe (approximately four to eight feet below grade) was stockpiled on polyethylene sheeting.

Contaminated soil stockpiled on polyethylene sheeting. The stockpile was covered with additional sheeting until it was shipped to Clean Earth of Connecticut.

- The excavation extended vertically to the water table, which was encountered approximately eight feet below grade.
- Monitoring well MW-04 was removed during excavation.
- Confirmatory soil samples were collected from the sidewalls of the excavation (see below).

- The excavation was lined with polyethylene sheeting pending the results of the confirmatory sampling and backfilled with the soil from above the pipe and clean fill from Powder Hill Sand & Gravel and reseeded by R&R Landscaping. A letter documenting that the imported fill material is from a natural source is included as *Appendix H*.
- On August 4, approximately 30.5 tons of impacted soil was shipped off-site to Clean Earth of Connecticut as non-hazardous material. Waste manifests are included in *Appendix H*.

Lined excavation being backfilled with clean fill. View looking southwest.

Restored excavation area. View looing east.

Confirmatory Soil Sampling (for GB PMC Compliance)

Six confirmatory soil samples (A07-01 through -06) were collected from the sidewalls of the excavation at a frequency of approximately one sample per 20 linear feet of sidewall and from below the depth of the fuel oil pipe at depths of five to seven feet from the ground surface. The samples were analyzed for ETPH and 2-methylnaphthalene. As previously discussed, ETPH and PAHs are common constituents of fill as well as petroleum with the exception of 2-methylnaphthalene, which is primarily encountered in association with petroleum releases; therefore, 2-methylnaphthalene was used in conjunction with ETPH to evaluate the success of the remediation.

Analytical results are summarized on *Table 8*. Laboratory reports are included in *Appendix D*. 2-Methylnaphthalene was not detected in any of the sidewall samples. ETPH was detected in only one sample (A07-03) at a concentration of 420 mg/kg, well below either the industrial/commercial DEC or GB PMC.

Bottom samples were not collected because the excavation extended to the seasonal high water table (approximately eight feet below grade). The GB PMC do not apply below the seasonal high water table.

Soil Rendered Inaccessible (for DEC Compliance)

Soil below the water table between the former USTs and associated piping and the Hockanum River is impacted by ETPH and PAHs associated with historical petroleum releases. The overlying soil, while composed of fill, has been shown to meet the industrial/commercial direct exposure criteria (see *Section 2.3.3*) and serves to render the petroleum-impacted soil inaccessible. The water table in the impacted area ranges from approximately 7 to 16 feet below grade. An ELUR was recorded to prohibit the disturbance of soil below a depth of five feet (refer to *Figure 7*).

Comparison of Key Constituents in Inaccessible Soil to Overlying Fill

Constituents Exceeding the Industrial/Commercial DEC at AOC 7	Industrial/ Commercial DEC	Maximum Concentration in Inaccessible Soil (below the water table)	Concentration in Accessible Soil
ETPH (mg/kg)	2,500	23,000	2,100
PAHs (ug/kg)			
Benzo(a)anthracene	7,800	22,000	1,698 [U]
Benzo(a)pyrene	3,000 [A]	17,000	1,632 [U]
Benzo(b)fluoranthene	7,800	12,000	2,493 [U]

[A]Alternative criteria approved by DEEP

[U]Concentration based on the 95 percent UCL of fill present at the Site

4.2.2 AOC 12 (Former Boiler Room) Soil Rendered Inaccessible and Environmentally Isolated

Soil below the former basement room pipe trench and sump is impacted by petroleum. ETPH and PAHs exceed the industrial/commercial direct exposure criteria and the GB pollutant mobility criteria. Three shallow monitoring wells installed at the release area demonstrated that recoverable separate phase petroleum is not present. The building serves to render the soil inaccessible and environmentally isolated, and an ELUR has been recorded to prohibit disturbance of the floor slab and underlying soil and demolition of the building.

4.2.3 AOC 101 (Foundry Area Shop) Soil Rendered Inaccessible

Petroleum-impacted soil was encountered in an isolated area below a depth of ten feet below grade to the water table approximately 16 to 17 feet below grade. Compliance with the GB PMC was demonstrated through groundwater monitoring (see *Section 2.3.2*). The impacted zone below a depth of ten feet also exceeds the industrial/commercial DEC for ETPH, several PAHs, and arsenic. The overlying soil, while composed of fill, has been shown to meet the industrial/commercial direct exposure criteria (see *Section 2.3.3*) and serves to render the impacted zone inaccessible. An ELUR was recorded to prohibit the disturbance of soil below a depth of six feet (refer to *Figure 7*).

Comparison of Key Constituents in Inaccessible Soil to Overlying Fill

Constituents Exceeding the Industrial/Commercial DEC at AOC 101	Industrial/ Commercial DEC	Maximum Concentration in Inaccessible Soil (Below 10')	Concentration in Accessible Soil
Metals (mg/kg)			
Arsenic	10	69.6	6.78 [U]
ETPH (mg/kg)	2500	31,000	340 [U]
PAHs (ug/kg)			
Benzo(a)pyrene	3,000 [A]	6,300	1,662 [U]

[A]Alternative criteria approved by DEEP

[U]Concentration based on the 95 percent UCL of fill present at the Site

4.2.4 Post-Remediation Groundwater Monitoring

Post-remediation groundwater monitoring was conducted for AOCs 7 and 12 following the excavation of the fuel oil pipe at AOC 7. Groundwater was monitored at four monitoring wells (MW-07, -08, -13, and -14) over four quarters (August and November 2017 and February and May 2018). Each well was sampled using low flow purging and sampling methods, and groundwater samples were analyzed for aromatic VOCs, ETPH, and PAHs.

During the pre-sample purging at MW-13 in November 2017 and May 2018, small pinhead-sized droplets of residual petroleum were occasionally extracted. Although no separate phase petroleum was detected using an interface probe, a groundwater sample was not submitted for analysis in November 2017. Based on field observations over the four quarterly rounds of sampling and previous monitoring events, recoverable petroleum is not present in the sub-surface. Refer to *Section 2.3.1* for additional information.

Summary of Results

Laboratory analytical reports are included in *Appendix D*. Analytical results for the post-remediation monitoring are summarized on *Table 9*. Ranges of concentrations of ETPH, PAHs, and VOCs detected at each monitoring location are summarized in the table below:

Ranges of Constituents Reported in Groundwater During Post-Remediation Monitoring

Constituents	Range of Concentrations			
	Upgradient →			*Downgradient*
	MW-08	**MW-13**	**MW-07**	**MW-14**
ETPH (mg/L)	ND	0.79 – 2.1	ND – 0.24	ND
Total PAHs (ug/L)	ND – 7.68	590 – 716	3.4 – 39.8	ND – 0.29
Total Aromatic VOCs (ug/L)	ND	82.4 – 775	ND – 19.5	ND

The highest concentrations of petroleum-related compounds were detected at MW-13, located just north of the former 20,000-gallon USTs. Concentrations decrease significantly further downgradient at monitoring wells MW-07 and MW-14.

Evaluation of Compliance

Groundwater criteria applicable to the Site include the groundwater VC and the SWPC:

- None of the detected VOCs exceeded the residential VC for groundwater.
- Monitoring well MW-14 represents the downgradient well and was used as the compliance point for the SWPC. No exceedances of the SWPC were identified at either MW-14 or MW-07, located just upgradient of MW-14.

5 Data Quality Assessment

Throughout the project, the quality of the data collected was evaluated to ensure that it was suitable to support investigative and remedial decisions. Data quality objectives are defined in *Section 2.2.1*. Results of the data quality assessment are discussed in the following sub-sections.

5.1 Analytical Methods

The analytical methods presented in the following table were selected to identify and evaluate potential releases because they are capable of achieving analytical detection limits less than the baseline numeric RSR clean-up criteria applicable to the Site.

Constituent of Concern	Analytical Method
VOCs	Field screening using a photoionization detector (PID). Where suspected, VOCs were confirmed with analysis by EPA Method 8260.
Petroleum hydrocarbons	Connecticut ETPH Method
PAHs	EPA Method 8270
PCBs	EPA Method 8082
Cyanide	SW9010
Metals	SW6010 (aluminum, arsenic, barium, cadmium, chromium, copper, lead, nickel, selenium, silver, and zinc). SW-7471 (mercury)

5.2 Data Quality Assessment

Quality assurance/quality control (QA/QC) procedures were conducted in accordance with the prevailing industry standards that existed at the time investigations were conducted. QA/QC protocols

included the review of RCP packages included with laboratory reports The following sections summarize our review of the results of the QA/QC samples and the RCP packages provided by the laboratories (*Appendix D*) during the site assessment activities.

Trip Blanks

Trip blanks for VOC analysis were provided by the laboratory to accompany each cooler of environmental samples to be analyzed for VOCs. Trip blank results were used to determine whether samples might have been compromised because of sample container handling or transport. VOCs were not detected in trip blanks collected during site investigations.

Equipment Blanks

Equipment blanks were collected from non-dedicated equipment (e.g. hand augers and direct-push cutting shoes) used during sampling. Laboratory-supplied deionized water was run through the decontaminated sampling equipment and into appropriate sample containers. Equipment blanks were collected at a frequency of at least one per piece of non-dedicated equipment per sampling event.

The only detection was on June 22, 2015. ETPH was detected at 190 mg/kg in one equipment blank collected during investigations at AOC 7 (former fuel oil USTs). A review of soil samples collected concurrent with the equipment blank identified no circumstances where residual ETPH of this magnitude would affect the interpretation of the data.

Duplicates

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

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

Reasonable Confidence Protocols and Data Usability

Connecticut's Reasonable Confidence Protocols were implemented in 2007. The reasonable confidence protocol packages provided with laboratory reports were reviewed. The laboratory reported that "reasonable confidence" was achieved on all analyses conducted. A review of the narratives revealed no notes that affected the usability of the data. Our review of the laboratory narratives is summarized on tables in *Appendix I*.

6 Demonstration of Compliance

As previously indicated, the Site has been investigated and remediated under CGS 22a-134 (Connecticut Property Transfer Program). Assessment, characterization, and remediation were completed on an AOC-by-AOC basis. An overview of the conclusions and method of demonstrating compliance with the RSRs is provided as *Table 1*.

6.1 Environmental Land Use Restrictions

Public notice of the intent to record an ELUR for the Site was published in the Journal Inquirer on June 9, 2017 (copy provided in *Appendix G*). Two ELURs (for 40 Brooklyn Street and 1 Court Street) were recorded on the land records at the Town of Vernon on June 27, 2018. A copy of the A-2 Survey depicting the areas subject to the ELUR is provided as *Appendix A*. These areas are also shown on *Figure 7*. A copy of the Certificates of Title are included as *Appendix J*. The restrictions recorded are summarized below:

ELUR Restrictions

Subject Area	Restriction	Notes
40 Brooklyn Street		
A	Residential use is prohibited	Soil contains constituents at concentrations greater than the residential DEC, but less than the industrial/commercial DEC.
B	Exposure of inaccessible soil below a depth of 7 feet is prohibited.	A limited allowable disturbance of 5 feet has been established.
C	Exposure of inaccessible soil below a depth of 10 feet is prohibited.	A limited allowable disturbance of 6 feet has been established.
D	Exposure of inaccessible soil below the building floor slab is prohibited.	---
	Disturbance of the concrete building floor slab is prohibited.	---
	Demolition of the building is prohibited.	---
1 Court Street		
A	Residential use is prohibited	Soil contains constituents at concentrations greater than the residential DEC, but less than the industrial/commercial DEC.
B	Exposure of inaccessible soil below a depth of 7 feet is prohibited.	A limited allowable disturbance of 5 feet has been established.

6.2 Additional Polluting Substances and Alternative Criteria

Additional Polluting Substances

Demonstration of compliance with RSR criteria included the use of additional polluting substances approved by the DEEP on June 22, 2018 via the "fast-track" option. The approval is included in *Appendix B*.

Alternative Criteria

On July 31, 2017, the DEEP approved a site-specific industrial/commercial DEC of 3 mg/kg for benzo(a)pyrene. The approval is included in *Appendix B*.

6.3 Compliance with Soil Remediation Standards

Twenty six AOCs were identified at the Site (see *Table 1* for descriptions and an overview of environmental history). No evidence of releases was identified at 18 AOCs , and no further evaluation of compliance at these areas is required. Compliance with RSR soil criteria for the remaining eight AOCs is discussed in the following subsections.

6.3.1 Direct Exposure and Pollutant Mobility Criteria

The following table summarizes the methods used to demonstrate compliance with RSR soil criteria at each of the eight AOCs where releases were identified. Because the Site is located in a GB-classified area, the GB pollutant mobility criteria apply (soil above the seasonal high water table). An ELUR prohibiting residential use of the Site was recorded on the Town of Vernon land records. As a result, the industrial/commercial DEC apply to the Site; however, the table also notes whether an AOC meets the lower residential DEC.

Methods of Demonstrating Compliance with RSR Soil Criteria

AOC	Method of Demonstrating Compliance		ELUR Subject Area
	DEC	GB PMC	
AOC 1 Wastewater Treatment	All soil samples meet the residential DEC.	All soil samples meet the GB PMC (including representative SPLP analyses for metals).	n/a
AOC 7 Former 20,000-Gallon Fuel Oil USTs	Soil below a depth of 7' has been rendered inaccessible and the DEC do not apply (22a-133k-2(b)(3)).	Following excavation, soil above the water table meets the GB PMC.	B

AOC	Method of Demonstrating Compliance		ELUR Subject Area
	DEC	GB PMC	
AOC 12 Former Boiler Room (Basement)	Building renders soil inaccessible and the DEC do not apply (22a-133k-2(b)(3)).	Building renders soil environmentally isolated and the PMC do not apply (22a-133k-2(c)(4)(A)).	D
AOC 20 PCE Release Area	All soil samples meet the residential DEC for PCE.	All soil samples meet the GB PMC for PCE.	n/a
AOC 101 Foundry and Pattern Shop	Soil below a depth of 10' has been rendered inaccessible and the DEC do not apply (22a-133k-2(b)(3)).	Arsenic met the GB PMC. 4 rounds of groundwater monitoring have demonstrated that groundwater meets the ap0plicable groundwater cleanup criteria and therefore complies with the GB PMC (22a-133k-2(c)(4)(C)).	C
AOC 102 Textile Mill	All soil samples meet the residential DEC.	All soil samples meet the GB PMC.	n/a
AOC 105 Site-Wide Fill	The 95% UCL was used to demonstrate compliance with the industrial/ commercial DEC for select compounds. For other compounds, all samples met the industrial/commercial DEC. An alternative industrial/ commercial DEC for benzo(a)pyrene was approved by DEEP (22a-133k-2(d)(2)(A)).	Fill is impacted by only coal, coal ash, wood ash, and asphalt and is exempt from the PMC (22a-133k-2(c)(4)(B)).	A
AOC 106 Anocoil Pond/Mill Pond	Not applicable Ecological risk assessment conducted.	Not applicable Ecological risk assessment conducted.	n/a

6.3.2 LNAPL Removal

In addition to compliance with soil criteria, the RSRs require the removal of LNAPL to the maximum extent practicable.

AOC 7 – Former 20,000-Gallon Fuel Oil USTs

During groundwater monitoring activities in April, June, and November 2017 and May 2018, small droplets of residual petroleum were occasionally extracted from monitoring well MW-13. No separate phase petroleum was detected using an interface probe, and purging during June, September, and December 2016, August 2017, and February 2018 yielded no visible petroleum. Based on field

observations, recoverable petroleum is not present in the sub-surface, and the occasional, observable product during purging is attributed to seasonal water table fluctuations.

AOC 12 – Former Boiler Room (Basement)

Because of the elevated concentrations of ETPH detected next to the basement fuel oil pipe trench (up to 23,000 mg/kg), three monitoring wells (MW-16, MW-17, and MW-18) were installed to assess for the presence of separate phase petroleum. The presence of shallow bedrock beneath the building resulted in wells depths ranging from approximately 1.5 to 2.75 feet deep. The wells were gauged for product in June, September, and December 2016 and March 2017 using an interface probe. Low water tables resulted in the wells being dry on most occasions; however, no evidence of petroleum was observed when water was present or during the installation of the monitoring wells. Refer to *Section 2.3.1* for additional details.

6.4 Compliance with Groundwater Remediation Standards

Criteria applicable to groundwater in a GB area include the SWPC and VC. In accordance with RSCA 22a-133k-3(g), a minimum of four sampling events that meet applicable RSR criteria and reflect seasonal variability on a quarterly basis are necessary to demonstrate that groundwater complies with the RSRs. All sampling events used to demonstrate compliance must be conducted after the completion of remediation and within two years of the most recent event used to demonstrate compliance.

A total of 15 monitoring wells were used to evaluate compliance with applicable groundwater criteria. Groundwater at the Site generally flows toward the Hockanum River (see *Figure 3*), and because the Hockanum River divides the Site, groundwater was evaluated with respected to two flow regimes: groundwater north of the river and groundwater south of the river.

The river is also encased in a concrete culvert that inhibits the discharge of on-site groundwater to the river, and, based on groundwater elevation measurements at the Site has affected groundwater flow. As groundwater approaches the culvert, it turns downstream, toward the west. As a result, monitoring well MW-01 represents the downgradient well on the north side of the river, and MW-14 represents the downgradient well on the south side of the river. Groundwater analytical results are summarized on *Tables 7a, 7b,* and *7c*. The following table summarizes the methods used to demonstrate compliance with RSR groundwater criteria:

Methods of Demonstrating Compliance with RSR Groundwater Criteria

Area	No. of Wells	Monitoring Dates	Constituents Detected	Compliance Evaluation	
				SWPC	VC
North of the River	4	5/2015 6/2016 9/2016 12/2016 – 1/2017 3/2017 – 4/2017	Metals PAHs Chloromethane Toluene	All reported concentrations met the SWPC.	All reported concentrations of VOCs met the residential VC.
South of the River	11*	5/2015 (Phase II) 6/2015 (Phase III) 6/2016 9/2016 12/2016 – 1/2017 3/2017 – 4/2017 8/2017 11/2017 2/2018 5/2018	Metals ETPH PAHs VOCs	Compliance monitoring for metals was conducted between June and December 2016. Post-remediation monitoring for AOC 7/12 was conducted quarterly between August 2017 and May 2018 for ETPH, VOCs, and PAHs. All reported concentrations of constituents during that time at downgradient monitoring location MW-14, as well as MW-07, met the SWPC.	All reported concentrations of VOCs met the residential VC.

*Not including monitoring wells under the building used solely to gauge for separate phase petroleum.

Effects of Remediation on Hydraulic Head and Geochemistry

Groundwater was encountered at the Site at depths ranging from approximately 2.6 to 22 feet below grade and is deepest on the western end of the Site (MW-14). Remediation activities at the Site included the excavation of a small quantity of soil from above the water table along the former pipe trench at AOC 7 (former fuel oil USTs). The area disturbed was approximately 4 feet wide and 50 feet long and was restored with the same surface materials that were present prior to remediation. The scope of excavation was not large enough to have a significant effect on the hydraulic gradient, groundwater flow direction, or groundwater chemistry.

6.5 On-Going Maintenance and Monitoring Requirements

On-going maintenance and monitoring requirements associated with remedies in place at the Site are summarized below:

- Soil in Subject Area D has been rendered inaccessible and environmentally isolated by the building. The floor slab at Subject Area D must be maintained in good condition, and the building must be maintained in a manner that prevents the infiltration of precipitation at Subject Area D.

- Soil in Subject Areas B and C is inaccessible. In both instances, more than four feet of surface material are used to render the soil inaccessible and the ELUR specifies allowable disturbance depths of up to five feet for Subject Area B and six feet for Subject Area C. As a result, no maintenance of paved surfaces is required by the ELUR.
- No future groundwater monitoring is required.

7 Summary

This Form III Verification Report was prepared for the Rockville East Main Corporation, the certifying party for the former Anocoil Corporation located at 40 Brooklyn Street and 1 Court Street in Vernon, Connecticut under three Property Transfer Law filings.

Twenty six AOCs were identified at the Site. *Table 1* summarizes investigation and remediation at each AOC. Eight of the AOCs exhibited releases. An overview of the methods used to demonstrate compliance with the RSRs is provided below:

Identified Releases

AOC	Released Constituents	Baseline RSR Soil Criteria Exceeded			Remedial Solution
		Res DEC	I/C DEC	GB PMC	
Anocoil Operations					
AOC 1 Wastewater Treatment	Caustics Aluminum PCE	--- --- ---	--- --- ---	--- --- ---	None
AOC 7 Former 20,000-Gallon Fuel Oil USTs	ETPH PAHs VOCs	■ ■ ---	■ ■ ---	■ ■ ---	Soil excavation to meet the GB PMC. ELUR prohibiting the disturbance of inaccessible soil below a depth of 7 feet.
AOC 12 Former Boiler Room (Basement)	ETPH PAHs	■ ■	■ ■	■ ■	ELUR prohibiting demolition of the building and disturbance of inaccessible soil and environmentally isolated soil below the floor.
AOC 20 PCE Release Area	PCE	---	---	---	None
Historical Operations					
AOC 101 Foundry and Pattern Shop	ETPH PAHs Arsenic	■ ■ ■	■ ■ ■	--- --- ---	ELUR prohibiting the disturbance of inaccessible soil below a depth of 10 feet.

AOC	Released Constituents	Baseline RSR Soil Criteria Exceeded			Remedial Solution
		Res DEC	I/C DEC	GB PMC	
AOC 102 Textile Mill	Styrene SVOCs Metals	--- --- ---	--- --- ---	--- --- ---	None
AOC 105 Site-Wide Fill	ETPH PAHs Metals	**---** ■ **---**	--- --- ---	--- --- ---	ELUR prohibiting residential use.
Receptor AOC					
AOC 106 Anocoil Pond	PAHs Metals	*	*	*	Ecological risk assessment concluded no remedial action necessary.

*Not applicable to pond sediment. An ecological risk assessment was conducted.

Remediation is complete, and groundwater monitoring to demonstrate the effectiveness of remediation and compliance with applicable RSR groundwater criteria has also been completed. An ELUR including the following restrictions has been recorded on the town land records:

- Residential use of the site is prohibited (Subject Area A on both 40 Brooklyn Street and 1 Court Street)
- Unauthorized demolition of the building is prohibited
- Unauthorized disturbance of the floor slab and inaccessible and environmentally isolated soil at AOC 12 (Subject Area D on 40 Brooklyn Street) is prohibited
- Unauthorized disturbance of inaccessible soil at AOCs 7 (Subject Area B on both parcels) and 101 (Subject Area C on 40 Brooklyn Street) is prohibited

In conclusion, the former Anocoil Corporation site has been investigated and remediated in accordance with prevailing standards and guidelines and complies with the RSRs. Future obligations associated with this Form III verification include the following:

- Soil in Subject Area D has been rendered inaccessible and environmentally isolated by the building. The floor slab at Subject Area D must be maintained in good condition, and the building must be maintained in a manner that prevents the infiltration of precipitation at Subject Area D.
- Soil in Subject Areas B and C is inaccessible. In both instances, more than four feet of surface material are used to render the soil inaccessible and the ELUR specifies allowable disturbance depths of up to five feet for Subject Area B and six feet for Subject Area C. As a result, no maintenance of paved surfaces is required by the ELUR.
- Groundwater monitoring has been completed and no further groundwater monitoring is required.

8 References

Supporting documentation is listed in *Section 1.4*. In addition, the following sources were used in the preparation of this report.

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Tables

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Table 1
Summary of Areas of Concern
Former Anocoil Corporation
Vernon, Connecticut

Phase I Background Investigation			Phase II/III Investigations			RSR Exceedances			Remedial Activities
							Soil	GW	
Area of Concern (AOC)	Background	COCs (Bold=Release)	Soil Boring Locations	Phase II Release Determination	Phase III Release Characterization Summary	Compounds Exceeding RSR Criteria	Res DEC I/C DEC GB PMC	SWPC Res VC I/C VC	
Anocoil AOCs									
AOC 1 Wastewater Treatment	All of the manufacturing area is above the basement, which houses wastewater conveyance and treatment operations. Pipes and floor trenches/sumps direct all facility waste water to two open concrete pits set above basement floor level and then to a 8,950-gallon pretreatment tank and 7,500-gallon neutralization tank (north side of building) before discharge to the sanitary sewer. A crawlspace at the east end is a confined space. Several releases (up to 4,000 gallons) to the neutralization area have been documented. *Primary Release Mechanisms* • Drains/sumps • Wastewater penetrations of collection pits • Surficial releases from pre-treatment and neutralization tanks that migrate through the concrete floor	**pH** **Aluminum** **PCE**	SB-04 SB-05 SB-06 SB-07 SB-47 SB-48 SB-49 SB-50 MW-03 MW-04 MW-05 MW-17 MW-08 MW-09 MW-13 MW-14	**Release Identified** – Soil samples were collected adjacent to trenches and sumps. Soil pH values above 11 indicated that releases of caustic materials occurred to soil beneath the facility basement. Trace PCE was detected in soil at MW-04 (5-7'). Aluminum was detected in groundwater at concentrations above background. See *Table 6a*	Soil borings SB-47 through -50 were drilled around the wastewater treatment tank area to characterize the extent of PCE. PCE was not detected in soil collected from these locations at similar depths to the detection identified at MW-04. These results confirm that the PCE is a minor release or an anomaly. Petroleum impacts at SB-48 and -49 are associated with AOC 7. ETPH, PAH, and metals concentration in soil above the water table at other locations were consistent with fill (AOC 105). Groundwater at monitoring wells MW-03, -04, -05, -08, -09, and -12 (all located between the building and the river) exhibited elevated aluminum concentrations relative to other monitoring wells at the Site. Investigations inside the building did not identify a release of aluminum; however, caustics have been released. The highest concentrations (13.8 to 52.6 mg/L) were reported at MW-05. The pH reported at MW-05 was also relatively low (5.38) compared to the average south of the river (6.47), suggesting that the aluminum in groundwater may be associated with the mobilization of naturally occurring aluminum by groundwater with a low pH due to releases of acids. The compliance point for the SWPC was determined to be monitoring well MW-14, located along the Site's western property boundary. Aluminum has not been detected in groundwater collected from this well at concentrations exceeding the SWPC.	---	- - -	- - -	None
AOC 2 Acid Tank Farm	The acid tank farm is located in a containment area south of the building. Acids include hydrochloric, sulfuric, nitric, and acetic stored in 8 4,000- to 6,000-gallon ASTs. Drains in the tank farm area convey any released liquid to the waste water treatment area. Several releases to this area have been documented. *Primary Release Mechanisms* • Drains in floor	pH	MW-06	**No Release** – Monitoring well MW-06 was installed directly downgradient of the acid tank farm. Soil and groundwater samples from this location indicated no evidence of a release See *Table 6a*	---	---	- - -	- - -	None

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AOC 3 Caustic Storage Room	The caustic storage room is located on the south side of the building and includes several storage tanks in containment areas. Sumps convey water/releases to the waste water treatment area. Caustics include sodium hydroxide stored in 5 100- to 4,000-gallon ASTs. Two small (less than 400 gallons) ASTs that are located outside the primary containment area contain acid. *Primary Release Mechanisms* • Sumps	pH	SB-03	**No Release** – A soil sample was collected beneath the floor slab just outside the bermed secondary containment for the caustic ASTs and adjacent to a sump where spilled liquids would accumulate. Soil pH was consistent with background. See *Table 6a*	---	---	- - -	- - -	None
AOC 4 Bulk Chemical Unloading Area	This area is a roofed, bermed area where trucks pump bulk acids to the acid tank farm. The paved floor is pitched towards a sump that conveys spills to the waste water treatment area. *Primary Release Mechanisms* • Sump	pH ETPH AVOCs PAHs	SB-08 SB-76	**No Release** – Soil samples collected adjacent to and north (inferred downgradient) of the unloading area sump did not exhibit evidence of a release. The sample collected adjacent to the sump was from a depth interval just below the base of the sump, which was approximately 1.25' deep. See *Table 6a*	---	---	- - -	- - -	None.
AOC 5 Chemical Loading Dock	The chemical loading dock is located adjacent to caustic storage room. Chemicals delivered here are transferred to the basement. *Primary Release Mechanisms* • Spills that migrate through the pavement	pH	SB-20	**No Release** – Shallow soil was sampled adjacent to the loading dock, and no evidence of a release was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 6 Former 15,000-Gallon Fuel Oil AST	This AST is located south of the acid tank farm in a concrete containment area. The tank is empty and is no longer used. There are no drains in the containment area, which is large enough to contain the entire tank volume. Over 2,000-gallons of fuel oil are suspected to have been released into the containment area. *Primary Release Mechanisms* • Migration of spills through the concrete containment	VOCs ETPH PAHs	---	**Release Unlikely** – An attempt was made to core through the concrete base of the containment area. The concrete was over 12" thick and could not be penetrated with hand coring equipment. The concrete core did not appear to be stained. Based on the thickness and condition of the concrete, there is no release mechanism for fuel oil to reach the environment.	---	---	- - -	- - -	None

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AOC 7 Former 20,000-Gallon Fuel Oil USTs	Two No. 4 fuel oil USTs were historically located north of the building and approximately 70 feet from the river. The USTs were housed in a storage building and were only partially buried (approx. 2.5 feet of each tank was above grade. In 1980, approx. 300-800 gallons of fuel oil were released to the ground surface due to a tank overfill.[3] The USTs were removed in 1989. Limited contamination was noted and an unspecified amount of soil was taken to the Manchester Landfill. Soil samples were also reportedly collected, but no data is currently available for review. *Primary Release Mechanisms* • Leaks from the USTs • Leaks from UST piping • Spills during filling	**VOCs** **ETPH** **PAHs**	SB-16 SB-36 SB-37 SB-48 SB-49 SB-51 SB-52 SB-54 SB-55 SB-58 MW-03 MW-07 MW-08 MW-09 MW-13 MW-14	**Release Identified** – A petroleum odor was noted during drilling in the tank grave area. ETPH and PAHs were detected in soil and groundwater samples. See *Table 6b*	Soil borings were drilled in the vicinity of the UST tank grave and pipe trench to characterize the extent of petroleum impacts and three additional monitoring wells were installed. Soil and groundwater between the building and river have been impacted by ETPH, PAHs, and aromatic VOCs associated with releases of fuel oil. Field observations and analytical data suggest that releases occurred from the UST and subsurface piping leading to the boiler room. In all instances, the impacted material was located below the water table except along the pipe trench in the vicinity of soil boring SB-48, where ETPH and PAH concentrations suggest that residual petroleum impacts exceeding the GB PMC were present from 4 to 8 feet below grade above the water table. At other locations, ETPH and PAHs present above the water table were consistent with fill (AOC 105). Groundwater at MW-03, -07, and -13 has been impacted by ETPH, VOCs, and PAHs consistent with a petroleum release. ETPH and PAHs at MW-04, -08, and -12 may also be associated with petroleum, though the detected constituents are also consistent with fill containing coal and ash. The compliance point for the SWPC was determined to be monitoring well MW-14 along the site's western property boundary. PAHs have not been detected in groundwater collected from this well at concentrations exceeding the SWPC with the exception of one event in December 2016, where a highly turbid sample caused by poor recharge during a period of low water table resulted in elevated PAH concentrations. A resample confirmed that the detections were associated with fine sediment.	ETPH PAHs	■ ■ ■ ■ ■ ■	- - - - - -	Impacted soil was excavated from above the water table in the vicinity of the USTs when the USTs were removed. Soil above the water table exceeding the GB PMC was excavated from a former pipe trench in August 2017. Soil exceeding the I/C DEC is inaccessible, and an ELUR was recorded to prohibit disturbance of such soil.
AOC 8 Former Sulfuric Acid ASTs and Historical Storage	Historical site mapping depicts 2 waste sulfuric acid tanks located outside the northwest corner of the building. The tanks were 6,400 and 8,000 gallons, respectively, and rested directly on the ground.[3] Sanborn maps also depict a storage building at this location. *Primary Release Mechanisms* • Releases from the ASTs to the ground surface	VOCs ETPH PAHs PCBs RCRA 8 metals Cu, Ni, Zn pH	SB-14 SB-14A SB-36 SB-54 MW-09	**No Release** – Phase II soil borings 14 and 14A exhibited pH and lead concentrations that could have been associated with fill or a release from the ASTs. Phase III data confirmed fill-related impacts. See *Table 6b*	Phase III investigations confirmed the pH detected at AOC 8 was consistent with background. Supplemental soil borings also confirmed the presence of fill in the vicinity of AOC 8 and that the lead (as well as other constituents) is associated with fill containing coal and ash and not a release from the ASTs. No release from AOC 8 is present.	---	- - -	- - -	None

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AOC 9 Main Loading Dock	The primary loading dock is located at the west end of the building. It is used for deliveries of raw materials (including spools of aluminum), chemicals, finished products, and removal of wastes. A catch basin is located in the truck well. *Primary Release Mechanisms* • Spills to the catch basin	pH Aluminum	SB-19	**No Release –** A soil sample was collected just beneath the asphalt and adjacent to a catch basin in the truck well adjacent to the loading dock. pH was slightly elevated but is suspected to be associated with ash in fill. See *Table 6a*	---	---	- - -	- - -	None
AOC 10 East Loading Bay	A loading bay is located at ground level at the east end of the building. *Primary Release Mechanisms* • Migration of spills through the pavement	pH	SB-26	**No Release –** A shallow soil sample was collected beneath the asphalt adjacent to the loading bay. No release was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 11 Former Boiler Room Loading Bay	The area outside the former boiler room is at the basement level and is one of the lowest areas on the site. A catch basin in this area discharges to the river. *Primary Release Mechanisms* • Spills migrating to the catch basin	VOCs ETPH PAHs PCBs RCRA 8 metals Cu, Ni, Zn pH	MW-05	**No Release –** A shallow soil sample was collected beneath the asphalt adjacent to a catch basin in the loading bay courtyard. No release associated with the loading area was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 12 Former Boiler Room (Basement)	The former boiler room is located in the basement on the west side of the maintenance area. The room houses boilers that were formerly oil-fired. A trench for the former oil piping is located in the floor under the stairs. Oil staining was observed in the pipe trench. A sump is also located in the boiler room. A 275-gallon waste oil AST is located in a containment area and is used to store small amounts of waste oil from machinery maintenance. The oil is filtered and reused on-site. The floor adjacent to the AST was in good condition with no evidence of a release or cracks that would serve as a migration pathway for spills. *Primary Release Mechanisms* • Leaks from the pipe trench • Spills to the sump	VOCs **ETPH** **PAHs**	SB-01 SB-02 SB-46 SB-59 SB-60 SB-61 MW-16 MW-17 MW-18	**Release Identified –** Soil samples were collected from SB-01 and -02 below the concrete floor adjacent to the former pipe trench and the boiler room sump exhibited a petroleum odor and sheen. Petroleum-related ETPH and PAHs were also detected. See *Table 6b*	Supplemental soil borings were drilled to characterize the extent of petroleum impacts. Refusal was encountered just below the impacted zone adjacent to the trench using hand sampling tools. Borings advanced around the release area confirmed that soil above the water table was impacted only in the immediate vicinity of the trench and sump. Soil below the water table was impacted at least ten feet northeast of the trench. Petroleum impacts were not evident at SB-46, drilled just outside the building and adjacent to the trench. Based on field observations and reported concentrations of ETPH at SB-01 (23,000 mg/kg), separate phase petroleum product was considered a possibility. Three shallow wells were installed to the depth of refusal on bedrock and gauged for the presence of free product over four consecutive quaters. No evidence of separate phase product was observed.	ETPH PAHs	■ ■ ■ ■ ■ ■	- - - - - -	An ELUR was recorded to prohibit the disturbance of inaccessible and environmentally isolated petroleum polluted soil beneath the building.

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AOC 13 Active Boiler Room	The active boiler room is located in a metal addition on the east side of the building. The boiler was originally designed to be dual-fuel but is fired solely by gas. Drums of hydraulic oil and corrosives were stored in the room. *Primary Release Mechanisms* • None	---	---	**No Release Mechanism** – The gas-fired boiler is not a release source. Only limited quantities of chemicals used for boiler operation were stored in this area. The concrete floor was in good condition with no staining, cracks, or drains. No investigations were warranted.	---	---	- - -	- - -	None
AOC 14 Anocoil Pad-Mounted Transformer	An active, pad-mounted transformer is located in a fenced area on the south side of the building. *Primary Release Mechanisms* • Releases to the ground surface	ETPH PCBs	SS-01	**No Release** – A surficial soil sample was collected adjacent to the concrete pad. No release was identified. ETPH was detected but the reported concentration is consistent with fill. See *Table 6a*	---	---	- - -	- - -	None
AOC 15 Former Pad-Mounted Transformers	Two concrete pads located behind existing Northeast Utility transformers on the south side of the building formerly held transformers. *Primary Release Mechanisms* • Releases to the ground surface	ETPH PCBs	SS-02	**No Release** – A surficial soil sample was collected adjacent to the concrete pad. No release was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 16 Eversource Transformers (2)	Two new-appearing pad-mounted transformers owned by Eversource are located on the south side of the building adjacent to the chemical receiving areas. *Primary Release Mechanisms* • Releases to the ground surface	ETPH PCBs	*SB-56*	**No Release** – A soil sample was collected below the asphalt adjacent to the concrete pad. No release was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 17 Interior Midel Oil Transformers (3)	Three transformers located inside the north wall of the first floor produce electricity for the graining process. The transformers do not use PCB oil and are set in secondary containment. This portion of the building also has a basement beneath the transformer area. *Primary Release Mechanisms* • None	---	---	**No Release Mechanism** – The transformers do not contain PCB oils and are not located on a ground-level floor where releases could impact soil. No investigations were warranted.	---	---	- - -	- - -	None

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AOC 18 Trash Compactor	A trash compactor is located on a concrete pad in the southeast corner of the eastern parking lot. Historical aerial photos also depict a dumpster on the pavement. No evidence of staining was observed. *Primary Release Mechanisms* • Releases to the ground surface that migrate through the pavement	ETPH pH	SB-24	**No Release** – A soil sample was collected just beneath the asphalt adjacent to the concrete pad for the compactor. No release was identified. See *Table 6a*	---	---	- - -	- - -	None
AOC 19 Maintenance Area & Maintenance Cellar	The maintenance area is located in the northeast portion of the building. Operations include a small machine shop that generally uses dry processes. A small drum-top parts washer is filled and emptied by Saftey Clean. The maintenance cellar is largely vacant with the exception of wine racks in the northwest portion. A large pipe enters the north wall of the cellar and follows the bedrock surface down into the floor. This is suspected to be water conveyance from outside the north wall to the Hockanum River. An apparent cleanout for the pipe was observed in the floor. This area was formerly occupied by historical textile mill structures. *Primary Release Mechanisms* • Releases from the piping system or at the drain cleanout (likely only water)	ETPH PAHs RCRA 8 metals Cu, Ni, Zn Aluminum pH	SB-28 *SB-62* *SB-63*	**No Release** – Soil samples were collected adjacent to the pipe and no evidence of a release was identified. Detected constituents are consistent with fill. See *Table 6a*	During Phase II investigations, a soil boring was advanced adjacent to a sub-slab pipe/trench, and a soil sample was collected at a depth coinciding with the base of the pipe. Because of the limited site data gathered at the time, chromium was initially suspected to be slightly above inferred background. Supplemental soil borings were advanced near the location where elevated chromium was detected. Based on field observations and analytical results, metals concentrations beneath this portion of the basement are consistent with fill.	---	- - -	- - -	None

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AOC 20 PCE Release Area	During Phase II investigations of historical textile operations on the eastern portion of the Site, PCE was detected in shallow soil. Potential sources of the PCE include: • Historical textile manufacturing, • Possible solvent handling by Anocoil (based on waste manifests referencing PCE) • During a site inspection, a well head with a PVC discharge pipe leading to the river was observed adjacent to this area. According to site personnel, the well was originally installed to provide process water; however, the groundwater was too contaminated for use. The well is artesian, and the discharge pipe serves to divert the overflow. Groundwater is known to be impacted by chlorinated VOCs as a result of releases from the former Amerbelle facility located just upgradient.	**PCE**	SB-23 SB-38 SB-39 SB-40 SB-41 SB-69 SB-70 SB-71 SB-72 SB-73 SB-74 MW-10	**Release Identified** – A release of PCE was identified at boring locations SB-23, -39, and -41. See *Table 6c*	Supplemental investigations included drilling soil borings to characterize the extent of PCE and the installation and sampling of a monitoring well. PCE was present in shallow soil (less than four feet below grade). The reported concentrations did not exceed the Res DEC or GB PMC. Supplemental sampling confirmed that the PCE is limited in extent and that concentrations above baseline RSR soil criteria are not present. The PCE detected in shallow soil may be the result of historical discharges from the well head rather than releases from on-site operations. Reported concentrations of other compounds (e.g. styrene and SVOCs detected at SB-23) are inferred to be associated with historical textile operations (AOC 102), while PAHs and metals were consistent with fill (AOC 105). The supplemental borings confirmed that these compounds were limited to the immediate vicinity of SB-23. Groundwater at MW-10 was not impacted by PCE.	---	- - -	- - -	None

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Historical AOCs									
AOC 101 Foundry and Pattern Shop *40 Brooklyn St. & 1 Court St.*	In the late-1800s and early-1900s, the northwestern portion of the site was occupied by an iron foundry. Before that it was occupied by a carriage factory. After the mid-1900s, it was occupied by commercial office space. *Primary Release Mechanisms* • Spills to the ground surface • Fill	VOCs **ETPH** **PAHs** PCBs **RCRA 8 metals** Cu, Ni, Zn	SB-11 SB-13 SB-25 SB-29 SB-30 SB-31 SB-44 SB-45 SB-67 SB-68 MW-01 MW-02 MW-11 MW-15	**Release Identified** – This area is covered by a thick layer of fill. Petroleum impacts were identified 12 to 16 feet below grade at SB-45 during an attempt to define the vertical extent of fill. See *Table 6d*	Petroleum-impacted soil was encountered on the northern portion of the Site at soil boring location SB-45. Viscous petroleum residue was observed during drilling. ETPH and PAHs consistent with a petroleum release were detected approximately 12 to 16 feet below grade but above the groundwater table. The source of the petroleum is not known but may have been associated with the historical foundry or other historical operations. Elevated arsenic (69.6 ppm) was also detected at this location, but is associated with fill. Groundwater at MW-01 exhibited a trace of toluene but no other COCs. Supplemental sampling confirmed that the extent of petroleum impacts was limited to the area between the front driveway and the river and that groundwater flow direction was to the south/southeast. Four rounds of groundwater sampling at MW-11 and MW-02 identified no constituents in groundwater at concentrations exceeding the SWPC. Based on the monitoring, the GB PMC do not apply as described further in the verification report.	ETPH PAHs Arsenic	■ ■ - ■ ■ - ■ ■ -	- - - - - - - - -	Soil exceeding the DEC is inaccessible, and an ELUR was recorded to prohibit the disturbance of the such soil.
AOC 102 Textile Mill *40 Brooklyn St.*	From the mid-1800s to the mid-1900s, the site was occupied by textile mills (cotton, yarn, wool, and worsted cloth). Operations included weaving, spinning, dying, and drying. *Primary Release Mechanisms* • Spills to the ground surface • Releases that migrated through the lower floor of the building	**VOCs** **SVOCs** RCRA 8 metals Cu, Ni, Zn Antimony **Hexavalent Cr**	SB-21 SB-22 SB-23 *SB-38* *SB-39* *SB-40* *SB-41* *SB-43* *MW-10*	**Release Identified** – A release of SVOCs, styrene, and PCE was identified at boring location SB-23. The PCE is addressed as AOC 20. See *Table 6c*	Supplemental investigations included drilling soil borings to characterize the extent of VOCs and SVOCs and the installation and sampling of a monitoring well. Styrene and non-fill SVOCs were detected only at SB-23 and did not exceed the baseline DEC or GB PMC. Groundwater at MW-10 was not impacted by VOCs or SVOCs.	---	- - -	- - -	None

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AOC 103 Coal House *40 Brooklyn St.*	During the period of textile manufacturing, the buildings were reportedly heated with coal stored in two sheds. *Primary Release Mechanisms* • Coal storage on the ground surface	ETPH PAHs RCRA 8 metals Cu, Ni, Zn PCE	*SB-47* *SB-48* *SB-49* *SB-50* MW-04 MW-05	**No Release –** No releases specifically attributable to the coal house were identified. Soil samples collected in this area exhibited ETPH, PAHs, and metals consistent with fill containing coal and ash. While the coal house may have contributed to impacts in this area, any such contribution is indistinguishable from the fill. See *Table 6a*	---	---	- - -	- - -	None
AOC 104 Railroad Spur *1 Court St.*	From the mid-1800s to the mid-1900s, a railroad spur of the Vernon line of the NY New Haven and Hartford Railroad was located on-site. *Primary Release Mechanisms* • Releases from rail cars to the ground surface • Fill	VOCs ETPH PAHs PCBs RCRA 8 metals Cu, Ni, Zn	SB-09	**No Release –** One shallow soil sample was collected beneath the asphalt in the vicinity of the former railroad spur. No release specifically attributable to the railroad was identified. Only low concentrations of PAHs and metals consistent with fill were detected. See *Table 6a*	---	---	- - -	- - -	None
AOC 105 Site-Wide Fill *40 Brooklyn St. & 1 Court St.*	Based on the Site's foundry and mill history and the channelization of the Hockanum River, historical/urban fill was suspected to be present. Aerial photographs suggest that filling occurred along the river in the early- to mid-1900s.	VOCs **ETPH** **PAHs** PCBs **RCRA 8 metals** **Cu, Ni, Zn** Antimony	All borings and surficial soil samples	**Release Identified –** Fill containing coal, coal ash, and wood ash, which is a source of ETPH, PAHs, and metals, was encountered across the Site. See *Table 6e*	Drilling confirmed that fill is present across the Site at thicknesses ranging from 2 feet to over 20 feet. The thickest fill is located in the area bounded by the building, Court Street and East Main Street. The fill contains coal, ash, brick, concrete, wood, and other trace debris and is impacted by ETPH, PAHs, and metals. The RSRs provide an exemption from the PMC for fill polluted solely with asphalt fragments, coal, and wood/coal ash. The 95% upper confidence limit (UCL) for ETPH, PAHs, and metals in the fill meet the industrial/commercial DEC. The compliance point for the SWPC was determined to be monitoring wells MW-14 and MW-01 along the site's western property boundary. COCs were not detected in groundwater collected from these wells at concentrations exceeding the SWPC. See Section 2.3.1 of the report for additional details and compliance demonstration specifics.	PAHs	■ - -	- - -	None.

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							Soil	GW	
Area of Concern (AOC)	**Background**	**COCs (Bold=Release)**	**Soil Boring Locations**	**Phase II Release Determination**	**Phase III Release Characterization Summary**	**Compounds Exceeding RSR Criteria**	Res DEC I/C DEC GB PMC	SWPC Res VC I/C VC	
AOC 106 Anocoil Pond/ American Mill Pond *40 Brooklyn St.*	The pond is located on 40 Brooklyn Street and upgradient/upstream of the facility. The historical textile mill straddled the river flowing out of the pond. *Primary Releases Sources* • Discharges/spills from the former Amerbelle facility located just upstream of the pond. • Upstream sources beyond Amerbelle	VOCs ETPH SVOCs PCBs RCRA 8 metals Cu, Ni, Zn	***HRP*** P-1, P-2 CBU-2 GC-1 UP-1 A-1A, A-B A-2A, A-2B ***GZA*** SED/SW-1 SED/SW-2 SED/SW -3 SED/SW -4 SED/SW -5 SED/SW -6 ***F&O*** SED/SW -01 SED/SW -02 SED/SW -03 SED/SW -04	**Impacts Identified** Investigations conducted in 1986 by HRP indicated that the pond sediment may be impacted by metals (lead and nickel based on EP toxicity analyses).	An ecological risk assessment of the Anocoil Pond was conducted. Refer to *Section 3.4* of the verification report for details. Conclusions of the assessment are as follows: • Concentrations of contaminants in sediment were generally highest in background samples and samples collected from the off-site portion of Anocoil Pond (adjacent to the former Amerbelle facility). These upstream sediments, as well as upstream surface water and groundwater impacts, serve as on-going sources of impacted media entering Anocoil Pond. • Some risk of ecological harm to local or meta-populations was identified; however, risk to the greater wildlife population was not indicated. The potential risk is also associated with background areas upstream of Anocoil Pond. As a result, the risk to the upper trophic level populations associated with Anocoil Pond is negligible.	Not applicable Ecological benchmarks considered.	- - -	- - -	None.

Notes:

Abbreviations:
AOC = area of concern
COC = constituents of concern that may have been used or handled at the AOC
GW = groundwater
RSRs = Remediation Standard Regulations
---- = not applicable; previous investigation phases indicated no need for further action

Constituents of Concern
Cu, Ni, Zn = copper, nickel, zinc
ETPH = extractable total petroleum hydrocarbons
PAHs = polycyclic aromatic hydrocarbons
PCBs = polychlorinated biphenyls
PCE = tetrachloroethylene
VOCs = volatile organic compounds
AVOCs = aromatic VOCs

RSR Criteria
GB PMC = GB pollutant mobility criteria
I/C DEC = industrial/commercial direct exposure criteria
I/C VC = industrial/commercial volatilization criteria
Res DEC = residential direct exposure criteria
Res VC = residential volatilization criteria
SWPC = surface water protection criteria

Table 2
Monitoring Well Construction Details
Former Anocoil Corporation
Vernon, Connecticut

Well ID	Installation Date	Well Diameter (inches)	Screened Interval (feet below grade)	Aquifer	Date Range of Water Level Data	Depth to Water (feet)	Water Level Variation (feet)	Historical NAPL (Y/N)
North of the River								
MW-01	04/2015	1.5	12 – 22	Overburden	5/2015 - 3/2017	16.31 - 18.58	2.27	N
MW-02	04/2015	1.5	8 – 18	Overburden	5/2015 - 6/2017	11.10 - 13.43	2.33	N
MW-11	06/2016	1.5	4 – 14	Overburden	6/2016 - 3/2017	5.53 - 7.37	1.84	N
MW-15	06/2016	1.5	10.5 – 20.5	Overburden	6/2016 - 3/2017	>20.5	---	N
South of the River								
MW-03	04/2015	1.5	5.5 – 10.5	Overburden	5/2015 - 2/2018	7.01 - 7.90	0.89	N
*MW-04**	*04/2015*	*1.5*	*5.75 – 10.75*	*Overburden*	*5/2015 - 3/2017*	*7.37 - 7.95*	*0.58*	*N*
MW-05	04/2015	1.5	0.5 – 5.5	Overburden	5/2015 - 2/2018	2.55 - 2.86	0.31	N
MW-06	04/2015	1.5	3 – 13	Overburden	5/2015 - 2/2018	7.61 - >13	>5.39	N
MW-07	06/2015	1.5	11 – 21	Overburden	6/2015 - 2/2018	15.92 - 19.85	3.93	N
MW-08	06/2015	1.5	5 – 15	Overburden	6/2015 - 2/2018	9.25 - 10.95	1.70	N
MW-09	06/2015	1.5	0.5 – 10.5	Overburden	6/2015 - 2/2018	8.06 - >10.5	>2.44	N
MW-10	06/2015	1.5	9 – 19	Overburden	6/2016 - 3/2017	14.43 - 15.07	0.64	N
MW-12	06/2016	1.5	4 – 14	Overburden	6/2016 - 2/2018	5.68 - 6.49	0.81	N
MW-13	06/2016	1.5	6 – 16	Overburden	6/2016 - 2/2018	14.31 - >16	>1.69	**N**[1]
MW-14	06/2016	2.0	15.5 – 25.5	Overburden	6/2016 - 2/2018	20.18 - 22.18	2.00	N
Inside Building								
MW-16	06/2016	2.0	0.67 – 1.67	Overburden	6/2016 - 3/2017	>1.67	---	N
MW-17	06/2016	2.0	1 –1.5	Overburden	6/2016 - 3/2017	1.72[2]	---	N
MW-18	06/2016	2.0	1 – 2.5	Overburden	6/2016 - 3/2017	1.2 - >2.5	1.30	N

Notes:

[1]During periods of extremely low water table, trace resdidual petroleum was occassionally observed during sampling, but no measureable product was detected with an interface probe.

[2]A water level of 1.72 was measured in December 2016; otherwise the well was reported dry

**Italicized* wells have been destroyed

Table 3
Summary of Constituents Detected in Soil and Fill
Former Anocoil Corporation
Vernon, Connecticut

CONSTITUENT	Res DEC	I/C DEC	GB PMC	No. of Samples Analyzed	No. of Detects	Concentrations Site-Wide		Concentrations in Fill	
						Median	Maximum	Median	Maximum
pH (su)	NA	NA	NA	30	30	4.16	11.28	NA	NA
Metals, Total (mg/kg)									
Aluminum	[50000]	[50000]	NA	18	18	8540	17700	8310	13900
Antimony	27	8200	NA	5	0	ND	ND	ND	ND
Arsenic	10	10	NA	107	106	3.925	69.6	3.925	45.6
Barium	4700	140000	NA	59	59	63	658	67.4	658
Cadmium	34	1000	NA	82	17	0.6	1.65	0.6	1.65
Chromium	3900[T]	51000[T]	NA	80	80	23.2	970	21.8	970
Chromium (Hexavalent)	100	100	NA	3	1	5.52	5.52	NA	NA
Copper	2500	76000	NA	70	70	20.15	152	20.2	152
Lead	400	1000	NA	110	110	93.75	3490	94.5	3490
Mercury	20	610	NA	82	66	0.2	2.13	0.205	2.13
Nickel	1400	7500	NA	47	47	8.96	49.4	8.93	49.4
Selenium	340	10000	NA	59	0	ND	ND	ND	ND
Silver	340	10000	NA	59	0	ND	ND	ND	ND
Zinc	20000	610000	NA	70	70	43.45	634	43.5	634
Metals, SPLP (mg/L)									
Aluminum	NA	NA	[0.5]	1	1	0.34	0.34	NA	NA
Arsenic	NA	NA	0.5	4	4	0.013	0.038	NA	NA
Barium	NA	NA	10	2	2	0.0645	0.087	NA	NA
Chromium	NA	NA	0.5	8	7	0.024	0.29	NA	NA
Lead	NA	NA	0.15	16	13	0.039	0.218	NA	NA
Mercury	NA	NA	0.02	1	0	ND	ND	NA	NA
Selenium	NA	NA	0.5	1	0	ND	ND	NA	NA
ETPH (mg/kg)	500	2500	2500	93	44	325	31000	220	2100
PCBs (mg/kg)	1	10	NA	16	0	ND	ND	ND	ND
VOCs (ug/kg)									
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	49	5	2000	29000	NA	NA
1,3,5-Trimethylbenzene	[500000]	[1000000]	[28000]	49	3	340	6600	NA	NA
2-Isopropyltoluene	NE	NE	NE	48	2	445	640	NA	NA
Acetone	500000	1000000	140000	48	2	80.5	110	NA	NA
Ethylbenzene	500000	1000000	10100	49	3	1100	29000	NA	NA
Isopropylbenzene	[500000]	[1000000]	[5000]	49	3	1600	25000	NA	NA
m,p-Xylenes	500000	1000000	19500	49	4	1210	16000	NA	NA
Methylene chloride	82000	760000	1000	51	1	4.4	4.4	NA	NA
n-Butylbenzene	[500000]	[1000000]	[70000]	49	1	390	390	NA	NA
n-Propylbenzene	[500000]	[1000000]	[10000]	49	2	1875	3200	NA	NA
o-Xylene	500000	1000000	19500	49	4	1525	13000	NA	NA
p-Isopropyltoluene	[500000]	[1000000]	[5000]	49	4	1320	18000	NA	NA
sec-Butylbenzene	[500000]	[1000000]	[70000]	49	2	375	490	NA	NA
Styrene	500000	1000000	20000	49	2	3680	6700	NA	NA
Tetrachloroethene	12000	110000	1000	51	6	490	950	NA	NA
Toluene	500000	1000000	67000	49	3	470	760	NA	NA
Xylene (total)	500000	1000000	19500	49	4	2735	29000	NA	NA
Trichloroethene	56000	520000	1000	51	1	9.2	9.2	NA	NA
PAHs (ug/kg)									
2-Methylnaphthalene	[270000]	[1000000]	[5600]	142	22	830	130000	565	1300
Acenaphthene	[1000000]	[2500000]	[84000]	136	15	620	5900	610	5900
Acenaphthylene	1000000	2500000	84000	136	42	510	29000	490	8600
Anthracene	1000000	2500000	400000	136	50	815	30000	745	8400
Benzo(a)anthracene	1000	7800	1000	136	83	1200	22000	1100	20000
Benzo(a)pyrene	1000	[[3000]]	1000	136	89	1100	17000	1000	17000
Benzo(b)fluoranthene	1000	7800	1000	136	89	1100	16000	960	16000
Benzo(ghi)perylene	[8400]	[78000]	[1000]	136	83	760	8700	760	8700
Benzo(k)fluoranthene	8400	78000	1000	136	76	810	15000	805	13000
Chrysene	[84000]	[780000]	[1000]	136	86	1350	38000	1300	20000
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	136	21	370	4200	365	4200
Fluoranthene	1000000	2500000	56000	136	93	2100	39000	2000	34000
Fluorene	1000000	2500000	56000	136	26	680	24000	530	5000
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	136	85	750	11000	755	11000
Naphthalene	1000000	2500000	56000	146	27	960	550000	750	3500
Phenanthrene	1000000	2500000	40000	136	86	1350	180000	1300	34000
Pyrene	1000000	2500000	40000	136	95	2000	55000	1950	32000
Other SVOCs (ug/kg)									
Acetophenone	NE	NE	NE	9	1	2800	2800	NA	NA
Benzoic acid	[1000000]	[2500000]	[200000]	9	1	1400	1400	NA	NA
Bis(2-ethylhexyl)phthalate	44000	410000	11000	9	1	390	390	NA	NA
Dibenzofuran	[68000]	[1000000]	[1400]	9	1	270	270	NA	NA
Dimethyl phthalate	[1000000]	[2500000]	[200000]	9	1	6200	6200	NA	NA

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
[1000] = DEEP fast-track additional polluting substances (DEEP approval required)
[[3000]] = DEEP-approved alternative criteria

NA = not applicable
NE = no established criteria
ND = not detected
[T]Criteria for trivalent chromium used

Table 4
Summary of Constituents Detected in Pond Sediment
AOC 106 - Anocoil Pond
Former Anocoil Corporation
Vernon, Connecticut

Surface Water Body	**Paper Mill Pond *(Upstream of Amerbelle - Background)***				**Anocoil Pond *(Upstream, On Amerbelle Property)***			**Anocoil Pond *(Anocoil Property)***		
Consultant (Sample Date)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)		
Sample Location	SED-4	SED-5	SED-6	SED-04	SED-1 *Amerbelle Cooling Water Discharge*	SED-2 *Amerbelle Raceway*	SED-3 *Amerbelle Below Bldg. 1*	SED-01[D] *South Shore*	SED-02 *Behind Dam*	SED-03 *North Shore*
CONSTITUENT										
Metals (mg/kg)										
Aluminum[1]	---	---	---	5450	---	---	---	9010/6050[D]	3640	3090
Arsenic	1	3.4	5.6	1.15	1.7	2.8	2.4	4.3/2.1[D]	3.71	<0.88
Barium	47.5	62.8	72.5	69.3	46.2	303	83.3	82.9	31.5	25.6
Cadmium	<0.42	<0.52	<0.99	0.48	1.14	3.41	0.93	1.79/0.92[D]	1.46	0.5
Chromium	8.49	19.7	24.5	13.1	24.4	38.8	45.7	19.6	13.7	8.52
Copper	---	---	---	32.5	---	---	---	66.8	20.9	14.2
Lead	95.4	61	171	240	67.4	1200	294	128	57.3	26.4
Mercury	<0.04	0.13	0.26	0.05	0.26	12.6	0.16	0.16	<0.03	<0.03
Nickel	---	---	---	9.03	---	---	---	16.3	10.3	6.6
Selenium	<1.7	<2.1	<4.0	<2.0	<1.7	<2.4	<2.7	<2.0	<1.8	<2.0
Silver	<0.42	<0.52	<0.99	<0.42	<0.42	<0.59	<0.68	<0.56	<0.36	<0.44
Zinc	---	---	---	69.1	---	---	---	**146/117[D]**	**181**	46.2
pH (su)	---	---	---	5.95	---	---	---	6.64	6.49	6.57
Total organic carbon (mg/kg)	30000	52000	140000	27000	18000	48000	68000	45000	16000	8200
ETPH (mg/kg)	---	---	---	520	---	---	---	<83	<59	<64
PAHs (ug/kg)										
2-Methylnaphthalene	<3200	18	230	<390	<0.7.9	77	<0.12	<11	<7.9	<8.6
Acenaphthene	3200	23	990	<390	14	640	67	28	9.1	18
Acenaphthylene	4800	80	500	1500	10	110	62	59	53	61
Anthracene	9300	91	2300	2000	21	1100	200	94	69	120
Benzo(a)anthracene	21000	260	4600	8600	46	4500	650	380	320	510
Benzo(a)pyrene	19000	370	4000	8600	62	4100	750	430	400	560
Benzo(b)fluoranthene	25000	540	5500	7900	88	6400	1000	400	370	500
Benzo(ghi)perylene	5700	200	1900	4600	60	1600	530	320	320	390
Benzo(k)fluoranthene	8500	200	1500	7700	33	2200	380	370	340	480
Chrysene	18000	340	4200	10000	58	4800	740	500	450	660
Dibenzo(a,h)anthracene	<3200	49	530	960	12	650	130	130	120	150
Fluoranthene	43000	750	9200	17000	150	10000	1300	840	820	1500
Fluorene	5000	41	1500	870	13	480	62	38	23	47
Indeno(1,2,3-CD)pyrene	5400	180	1800	5000	47	1500	460	310	300	380
Naphthalene	<3200	42	420	<7.3	37	90	22	16	8.5	<6.2
Phenanthrene	28000	380	9100	7500	65	7800	820	380	320	600
Pyrene	37000	770	7100	15000	130	7500	1100	730	700	1400
Other SVOCs (ug/kg)										
Bis(2-ethylhexyl)phthalate	<3200	21	130	420	39	2300	280	330	230	94
Phenol	---	---	---	<390	---	---	---	20	<7.9	8.8
Phenolics (ug/kg)	<1000	<1300	<2100	---	<900	<1500	<1400	---	---	---
VOCs (ug/kg)										
Carbon Disulfide[2]	---	---	---	1.1	---	---	---	<0.81	1.4	<0.80
p-Isopropyltoluene[1,3]	---	---	---	<7.3	---	---	---	<8.1	**18**	<6.2

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
All samples were collected from a depth of approximately 0-0.5 feet
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported in the Anocoil Pond that is above backgound based on data collected upstream
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
Duplicate values are shown for selected compounds
[1,]There are no ecological risk values for these compounds
[2]Commonly used in laboratory chemicals and pesticides (may be a laboratory artifact)
[3]Commonly used in heat transfer agents and in wood office furniture/work surfaces and flat water thinned interior paints and tinting bases

Table 5
Summary of Constituents Detected in Surface Water
AOC 106 - Anocoil Pond
Former Anocoil Corporation
Vernon, Connecticut

Surface Water Body	**Paper Mill Pond *(Upstream of Amerbelle - Background)***				**Anocoil Pond *(Upstream, On Amerbelle Property)***			**Anocoil Pond *(Anocoil Property)***		
Consultant (Sample Date)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)		
Sample Location	SW-4	SW-5	SW-6	SW-04	SW-1	SW-2	SW-3	SW-01[D]	SW-02	SW-03
CONSTITUENT										
Field Parameters										
pH (su)	---	---	---	6.56	---	---	---	6.45	7.16	6.98
Specific Conductance (umh/c)	---	---	---	199	---	---	---	199	198	198
Temperature (deg C)	---	---	---	23	---	---	---	19.6	20.1	20
Dissolved Oxygen (mg/L)	---	---	---	6.1	---	---	---	8.2	8.2	8
General Chemistry										
pH (su)	---	---	---	6.95	---	---	---	7.12	7.08	7.13
Specific Conductance (umh/c)	---	---	---	197	---	---	---	197	195	193
Hardness (mg/L)	24.5	25.2	25.5	30.1	24	24.6	24.1	29.9	30	30
Alkalinity (mg/L)	---	---	---	<20.0	---	---	---	20	20	<20.0
Metals, Total (mg/L)										
Aluminum	---	---	---	0.108	---	---	---	0.172/0.228[D]	0.136	0.278
Arsenic	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium	0.022	0.023	0.024	0.029	0.022	0.023	0.022	0.033	0.031	0.035
Cadmium	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002
Chromium	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Copper	---	---	---	<0.005	---	---	---	<0.005	<0.005	<0.005
Lead	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	0.005
Mercury	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	---	---	---	0.001	---	---	---	<0.001	<0.001	<0.001
Selenium	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010
Silver	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002
Zinc	---	---	---	0.003	---	---	---	0.003	0.002	**0.016**
Metals, Dissolved (mg/L)										
Aluminum[1]	---	---	---	0.071	---	---	---	0.029/0.084[D]	0.128	0.097
Arsenic	---	---	---	<0.004	---	---	---	<0.004	<0.004	<0.004
Barium	---	---	---	0.028	---	---	---	0.031	0.029	0.029
Cadmium	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002
Chromium	---	---	---	<0.001	---	---	---	<0.001	<0.001	<0.001
Copper	---	---	---	<0.005	---	---	---	<0.005	<0.005	<0.005
Lead	---	---	---	<0.002	---	---	---	<0.002	<0.002	<0.002
Mercury	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002
Nickel	---	---	---	<0.001	---	---	---	<0.001	<0.001	<0.001
Selenium	---	---	---	<0.011	---	---	---	<0.011	<0.011	<0.011
Silver	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002
Zinc	---	---	---	0.004	---	---	---	<0.002	<0.002	<0.002
Total Organic Carbon (mg/L)	---	---	---	5.2	---	---	---	4.9	4.9	5.1
ETPH (mg/L)	---	---	---	<0.067	---	---	---	<0.066	<0.066	<0.066
PAHs (ug/L)										
Benzo(a)anthracene	ND	ND	ND	<0.02	ND	ND	ND	<0.02	<0.02	**0.08**
Benzo(a)pyrene	ND	ND	ND	<0.02	ND	ND	ND	<0.02	<0.02	**0.09**
Benzo(b)fluoranthene	ND	ND	ND	<0.05	ND	ND	ND	<0.05	<0.05	**0.1**
Benzo(k)fluoranthene	ND	ND	ND	<0.05	ND	ND	ND	<0.05	<0.05	**0.09**
Chrysene	ND	ND	ND	<0.05	ND	ND	ND	<0.05	<0.05	**0.1**
Dibenzo(a,h)anthracene	ND	ND	ND	0.01	ND	ND	ND	0.01	0.01	0.03
Fluoranthene	ND	ND	ND	<0.04	ND	ND	ND	<0.04	<0.04	**0.19**
Indeno(1,2,3-CD)pyrene	ND	ND	ND	<0.05	ND	ND	ND	<0.05	<0.05	**0.06**
Phenanthrene	ND	ND	ND	<0.05	ND	ND	ND	<0.05	<0.05	**0.08**
Pyrene	ND	ND	ND	0.02	ND	ND	ND	0.02	0.03	**0.16**
Other SVOCs (ug/L)	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Phenolics (ug/L)	22	<15	<15	---	<15	<15	<15	---	---	---
VOCs (ug/L)	---	---	---	ND	---	---	---	ND	ND	ND

Notes:
8/2017 samples collected following a rain event and during pond refill following drawdown to allow access
Units: ug=micrograms, mg=milligrams, L=liter
ND = not detected
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported in the Anocoil Pond that is above backgound based on data collected upstream
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
Duplicate values are shown for selected compounds

Table 6a
Summary of Constituents Dected in Soil
AOCs 1-5, 9-11, 14-16, 18, 19, 103, and 104
Former Anocoil Corporation
Vernon, Connecticut

	Area of Concern (AOC)	AOC 1 (Beneath Building)				AOC 1 (Outside Bldg.) and AOC 103						
	Site ID	SB-04	SB-05	SB-06	SB-07	MW-04			MW-08	SB-47	SB-48	
	Date	4/24/2015	4/24/2015	4/24/2015	4/24/2015	4/28/2015			6/16/2015	6/22/2015	6/22/2015	
	Sample Depth (feet)	3 - 5	0.8 - 2.8	0.7 - 1[W]	1 - 3	*2 - 4*	*5 - 7*	8 - 9[W]	0.5 - 4	5 - 6	*5 - 7*	8 - 10[W]
	Observed Fill Thickness	Fill (3')	Fill (1')	---	Fill (4.7'+)	*Fill*	*Fill*	Fill (9')	Fill (5')	---	*Fill*	Fill (10')
	Depth to Bedrock (feet)	---	---	---	4.7	---	---	12.5	15	7	---	10
CONSTITUENT	Res DEC / I/C DEC / GB PMC					*Excavated*					*Excavated*	
pH (su)	NA / NA / NA	11.08	8.7	11.28	9.27	*7.43*	*6.12*	----	----	8.64	*7.05*	----
Metals, Total (mg/kg)												
Aluminum	[50000] / [50000] / NA	13900	2110	8770	5330	*2170*	*4190*	----	----	17700	*4310*	----
Antimony	27 / 8200 / NA	----	----	----	----	----	----	----	----	----	----	----
Arsenic	10 / 10 / NA	3.4	----	<0.8	----	----	***16.9***	**45.6**	2.2	3.6	***14.6***	**15**
Barium	4700 / 140000 / NA	97	----	230	----	----	*85.7*	268	33.6	186	*88.8*	----
Cadmium	34 / 1000 / NA	<0.35	----	<0.40	----	----	*0.48*	0.64	<0.39	<0.38	*<0.40*	----
Chromium	51000[T] / 3900[T] / NA	30.1	----	6.46	----	----	*53.2*	838	11.1	19.7	*72*	----
Chromium, Hex	100 / 100 / NA	----	----	----	----	----	----	**----**	----	----	----	----
Copper	2500 / 76000 / NA	51.8	----	14.8	----	----	*75.3*	44.5	12	----	----	----
Lead	400 / 1000 / NA	270	----	103	----	----	*187*	77.7	53.3	5.07	*66.8*	----
Mercury	20 / 610 / NA	0.07	----	<0.03	----	----	*0.46*	0.05	0.09	<0.03	*0.06*	----
Nickel	1400 / 7500 / NA	49.4	----	4.48	----	----	*12.2*	15.5	7.1	----	----	----
Selenium	340 / 10000 / NA	<1.4	----	<1.6	----	----	*<1.5*	<1.8	<1.6	<1.5	*<1.6*	----
Silver	340 / 10000 / NA	<0.35	----	<0.40	----	----	*<0.39*	<0.45	<0.39	<0.38	*<0.40*	----
Zinc	20000 / 610000 / NA	48.9	----	27.1	----	----	*41.9*	37.3	35.2	----	----	----
Metals, SPLP (mg/L)												
Aluminum	NA / NA / [0.5]	0.34	----	----	----	----	----	----	----	----	----	----
Arsenic	NA / NA / 0.5	----	----	----	----	----	*0.008*	0.018	----	----	----	----
Barium	NA / NA / 10	----	----	----	----	----	----	0.042	----	----	----	----
Chromium	NA / NA / 0.5	----	----	----	----	----	*0.016*	0.123	----	----	----	----
Lead	NA / NA / 0.15	<0.010	----	----	----	----	*0.041*	0.02	----	----	----	----
ETPH (mg/kg)	500 / 2500 / 2500	----	----	----	----	----	***1300***	**1000**	<56	<54	***3600***	<60
PCBs (mg/kg)	1 / 10 / NA	----	----	----	----	----	*<0.4*	<0.46	----	----	----	----
VOCs (ug/kg)												
PID Reading (ppm)	*NA / NA / NA*	*0*	*0*	---	*0*	*0*	*0*	*23*	*0*	*0*	*0*	*0*
1,2,4-Trimethylbenzene	[500000] / [1000000] / [28000]	----	----	----	----	----	*<400*	<440	----	<4.3	*<450*	----
p-Isopropyltoluene	[500000] / [1000000] / [5000]	----	----	----	----	----	*<400*	<440	----	<4.3	*<450*	----
Tetrachloroethene	12000 / 110000 / 1000	----	----	----	----	----	*8.1*	<6.9	----	<4.3	*<7.8*	----
PAHs (ug/kg)												
2-Methylnaphthalene	[270000] / [1000000] / [5600]	----	----	----	----	----	*800*	<320	<520	<250	*3900*	<280
Acenaphthene	[1000000] / [2500000] / [84000]	----	----	----	----	----	*<280*	390	<520	<250	*<2800*	<280
Acenaphthylene	1000000 / 2500000 / 84000	----	----	----	----	----	*<280*	490	<520	<250	*<2800*	<280
Anthracene	1000000 / 2500000 / 400000	----	----	----	----	----	*<280*	1200	<520	<250	*<2800*	<280
Benzo(a)anthracene	1000 / 7800 / 1000	----	----	----	----	----	***1300***	**1500**	<520	<250	***<2800***	<280
Benzo(a)pyrene	1000 / [[3000]] / 1000	----	----	----	----	----	***1400***	980	<520	<250	***<2800***	<280
Benzo(b)fluoranthene	1000 / 7800 / 1000	----	----	----	----	----	***1400***	910	<520	<250	***<2800***	<280
Benzo(ghi)perylene	[8400] / [78000] / [1000]	----	----	----	----	----	***1400***	540	<520	<250	***5100***	<280
Benzo(k)fluoranthene	8400 / 78000 / 1000	----	----	----	----	----	*710*	380	<520	<250	***<2800***	<280
Chrysene	[84000] / [780000] / [1000]	----	----	----	----	----	***1400***	**2200**	<520	<250	***<2800***	<280
Dibenzo(a,h)anthracene	[1000] / [1000] / [1000]	----	----	----	----	----	*<280*	<320	<520	<250	***<2800***	<280
Fluoranthene	1000000 / 2500000 / 56000	----	----	----	----	----	*1300*	2000	<520	<250	*<2800*	<280
Fluorene	1000000 / 2500000 / 56000	----	----	----	----	----	*<280*	530	<520	<250	*<2800*	<280
Indeno(1,2,3-CD)pyrene	[1000] / [7800] / [1000]	----	----	----	----	----	*750*	510	<520	<250	***<2800***	<280
Naphthalene	1000000 / 2500000 / 56000	----	----	----	----	----	*520*	<320	<520	<4.3	*<450*	<280
Phenanthrene	1000000 / 2500000 / 40000	----	----	----	----	----	*760*	9200	<520	<250	*<2800*	<280
Pyrene	1000000 / 2500000 / 40000	----	----	----	----	----	*1300*	2800	<520	<250	*21000*	<280

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[Tr]Trivalent chromium
Italicized text = sample location excavated during remediation
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6a
Summary of Constituents Dected in Soil
AOCs 1-5, 9-11, 14-16, 18, 19, 103, and 104
Former Anocoil Corporation
Vernon, Connecticut

				AOC 1 (Outside Bldg.) and AOC 103				AOC 2		AOC 3	AOC 4		AOC 5	AOC 9	AOC 10
Area of Concern (AOC)															
Site ID				SB-49		SB-50		MW-06		SB-03	SB-08	SB-76	SB-20	SB-19	SB-26
Date				6/22/2015		6/22/2015		4/29/2015		4/24/2015	4/24/2015	2/6/2018	4/28/2015	4/28/2015	4/29/2015
Sample Depth (feet)				6 - 8	11 - 13[W,D]	6 - 8	10 - 11[W]	0.5 - 3.5	5 - 6	1 - 3	2 - 4	1.25 - 2.5	0.25 - 2	2.5 - 4	0.5 - 4
Observed Fill Thickness				Fill (7.5')	---	Fill	Fill (11')	Fill	Fill (5.5')	Fill (0.6')	---	---	Fill (2.5')	Fill (5'+)	Fill (5'+)
Depth to Bedrock (feet)				---	13	---	11	---	---	---	---	---	---	---	---
CONSTITUENT	Res DEC	I/C DEC	GB PMC		Oil odor										
pH (su)	NA	NA	NA	----	6.88	7.1	----	7.04	5.8	4.17	7.2	7.08	6.33	9.11	7.44
Metals, Total (mg/kg)															
Aluminum	[50000]	[50000]	NA	----	14000	8310	----	----	----	----	----	----	----	6170	----
Antimony	27	8200	NA	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	10	10	NA	----	4.9	**14.6**	1.1	----	----	1.9	----	----	----	----	----
Barium	4700	140000	NA	----	75.4	85.1	----	----	----	31.7	----	----	----	----	----
Cadmium	34	1000	NA	----	0.61	0.48	----	----	----	<0.32	----	----	----	----	----
Chromium	51000[T]	3900[T]	NA	----	112	337	17.8	----	----	16.4	----	----	----	----	----
Chromium, Hex	100	100	NA	----	**----**	<0.48	----	----	----	----	----	----	----	----	----
Copper	2500	76000	NA	----	----	----	----	----	----	12.7	----	----	----	----	----
Lead	400	1000	NA	----	135	142	1.57	----	----	5.44	----	----	----	----	----
Mercury	20	610	NA	----	0.35	0.13	----	----	----	<0.03	----	----	----	----	----
Nickel	1400	7500	NA	----	----	----	----	----	----	8.47	----	----	----	----	----
Selenium	340	10000	NA	----	<2.1	<1.5	----	----	----	<1.3	----	----	----	----	----
Silver	340	10000	NA	----	<0.51	<0.37	----	----	----	<0.32	----	----	----	----	----
Zinc	20000	610000	NA	----	----	----	----	----	----	21	----	----	----	----	----
Metals, SPLP (mg/L)															
Aluminum	NA	NA	[0.5]	----	----	----	----	----	----	----	----	----	----	----	----
Arsenic	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	----	----
Barium	NA	NA	10	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	----	----
Lead	NA	NA	0.15	----	----	----	----	----	----	----	----	----	----	----	----
ETPH (mg/kg)	500	2500	2500	<55	**9000**	380	----	----	----	----	----	<51	----	----	----
PCBs (mg/kg)	1	10	NA	----	----	----	----	----	----	----	----	----	----	----	----
VOCs (ug/kg)															
PID Reading (ppm)	*NA*	*NA*	*NA*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	---	*0*	*0*	*0*	*0*
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	<300	290	<330	----	----	----	----	----	<3.5	----	----	----
p-Isopropyltoluene	[500000]	[1000000]	[5000]	<300	440	<330	----	----	----	----	----	<3.5	----	----	----
Tetrachloroethene	12000	110000	1000	<5.3	<430	<4.9	----	----	----	----	----	----	----	----	----
PAHs (ug/kg)															
2-Methylnaphthalene	[270000]	[1000000]	[5600]	<260	67000	770	<280	----	----	----	----	<240	----	----	----
Acenaphthene	[1000000]	[2500000]	[84000]	<260	<9100	<550	<280	----	----	----	----	<240	----	----	----
Acenaphthylene	1000000	2500000	84000	400	29000	760	<280	----	----	----	----	<240	----	----	----
Anthracene	1000000	2500000	400000	<260	30000	<550	<280	----	----	----	----	<240	----	----	----
Benzo(a)anthracene	1000	7800	1000	260	**19000**	580	<280	----	----	----	----	<240	----	----	----
Benzo(a)pyrene	1000	[[3000]]	1000	300	**12000**	**1100**	<280	----	----	----	----	<240	----	----	----
Benzo(b)fluoranthene	1000	7800	1000	400	**12000**	**1100**	<280	----	----	----	----	<240	----	----	----
Benzo(ghi)perylene	[8400]	[78000]	[1000]	340	**<9100**	**1700**	<280	----	----	----	----	<240	----	----	----
Benzo(k)fluoranthene	8400	78000	1000	<260	**<9100**	<550	<280	----	----	----	----	<240	----	----	----
Chrysene	[84000]	[780000]	[1000]	280	**19000**	690	<280	----	----	----	----	<240	----	----	----
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	<260	**<9100**	<550	<280	----	----	----	----	<240	----	----	----
Fluoranthene	1000000	2500000	56000	490	39000	850	<280	----	----	----	----	<240	----	----	----
Fluorene	1000000	2500000	56000	<260	24000	<550	<280	----	----	----	----	<240	----	----	----
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	300	**<9100**	830	<280	----	----	----	----	<240	----	----	----
Naphthalene	1000000	2500000	56000	<260	45000	<330	<280	----	----	----	----	<240	----	----	----
Phenanthrene	1000000	2500000	40000	300	180000	610	<280	----	----	----	----	<240	----	----	----
Pyrene	1000000	2500000	40000	440	55000	1600	<280	----	----	----	----	<240	----	----	----

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium

Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6a
Summary of Constituents Dected in Soil
AOCs 1-5, 9-11, 14-16, 18, 19, 103, and 104
Former Anocoil Corporation
Vernon, Connecticut

			Area of Concern (AOC)	**AOC 11**	**AOC 14**	**AOC 15**	**AOC 16**	**AOC 18**	**AOC 19**				**AOC 104**
			Site ID	MW-05	SS-01	SS-02	SB-56	SB-24	SB-28	SB-62		SB-63	SB-09
			Date	4/28/2015	4/24/2015	4/29/2015	6/23/2015	4/28/2015	4/29/2015	6/24/2015		6/24/2015	4/27/2015
			Sample Depth (feet)	1 - 5	0 - 0.5	2 - 4	0.25 - 0.5	0.5 - 2.5	2.5 - 4.5	2 - 4	4 - 6[W]	2 - 4	0.5 - 4.5
			Observed Fill Thickness	---	----	----	---	Fill (5'+)	---	---	---	Fill (4')	Fill (2')
			Depth to Bedrock (feet)	5.5	----	----	>16	---	4.5	---	---	4	---
CONSTITUENT	Res DEC	I/C DEC	GB PMC										
pH (su)	NA	NA	NA	----	----	----	----	8.84	7.48	----	----	----	----
Metals, Total (mg/kg)													
Aluminum	[50000]	[50000]	NA	----	----	----	----	----	9860	5990	----	4980	----
Antimony	27	8200	NA	----	----	----	----	----	----	----	----	----	----
Arsenic	10	10	NA	1.3	----	----	----	----	3.7	3.2	----	8.8	1.9
Barium	4700	140000	NA	72.3	----	----	----	----	78.9	62.2	----	49.1	39.9
Cadmium	34	1000	NA	<0.36	----	----	----	----	<0.35	0.47	----	1.17	<0.39
Chromium	51000[T]	3900[T]	NA	10.8	----	----	----	----	62.2	108	25	34.8	10.9
Chromium, Hex	100	100	NA	----	----	----	----	----	----	<0.52	----	----	----
Copper	2500	76000	NA	19.8	----	----	----	----	----	----	----	----	10.6
Lead	400	1000	NA	2.13	----	----	----	----	73.5	220	377	130	52.7
Mercury	20	610	NA	<0.03	----	----	----	----	0.15	0.75	----	0.56	0.05
Nickel	1400	7500	NA	5.45	----	----	----	----	----	----	----	----	7.04
Selenium	340	10000	NA	<1.4	----	----	----	----	<1.4	<1.7	----	<1.5	<1.6
Silver	340	10000	NA	<0.36	----	----	----	----	<0.35	<0.42	----	<0.38	<0.39
Zinc	20000	610000	NA	29.8	----	----	----	----	----	----	----	----	37.7
Metals, SPLP (mg/L)													
Aluminum	NA	NA	[0.5]	----	----	----	----	----	----	----	----	----	----
Arsenic	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----
Barium	NA	NA	10	----	----	----	----	----	----	----	----	----	----
Chromium	NA	NA	0.5	----	----	----	----	----	0.109	0.019	----	----	----
Lead	NA	NA	0.15	----	----	----	----	----	----	0.020	0.035	----	----
ETPH (mg/kg)	500	2500	2500	<56	210	<52	----	<57	<57	----	----	----	<55
PCBs (mg/kg)	1	10	NA	<0.38	<0.4	<0.35	<0.36	----	----	----	----	----	<0.37
VOCs (ug/kg)													
PID Reading (ppm)	*NA*	*NA*	*NA*	---	----	*0*	*0*	*0*	*0*	*0*	*0*		*0*
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	<4.0	----	----	----	----	---	----	----	----	<4.1
p-Isopropyltoluene	[500000]	[1000000]	[5000]	<4.0	----	----	----	----	----	----	----	----	<4.1
Tetrachloroethene	12000	110000	1000	<4.0	----	----	----	----	----	----	----	----	<4.1
PAHs (ug/kg)													
2-Methylnaphthalene	[270000]	[1000000]	[5600]	<270	----	----	----	----	<270	----	----	----	<260
Acenaphthene	[1000000]	[2500000]	[84000]	<270	----	----	----	----	<270	----	----	----	<260
Acenaphthylene	1000000	2500000	84000	<270	----	----	----	----	<270	----	----	----	<260
Anthracene	1000000	2500000	400000	<270	----	----	----	----	<270	----	----	----	<260
Benzo(a)anthracene	1000	7800	1000	<270	----	----	----	----	<270	----	----	----	<260
Benzo(a)pyrene	1000	[[3000]]	1000	<270	----	----	----	----	<270	----	----	----	<260
Benzo(b)fluoranthene	1000	7800	1000	<270	----	----	----	----	<270	----	----	----	310
Benzo(ghi)perylene	[8400]	[78000]	[1000]	<270	----	----	----	----	<270	----	----	----	<260
Benzo(k)fluoranthene	8400	78000	1000	<270	----	----	----	----	<270	----	----	----	<260
Chrysene	[84000]	[780000]	[1000]	<270	----	----	----	----	<270	----	----	----	<260
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	<270	----	----	----	----	<270	----	----	----	<260
Fluoranthene	1000000	2500000	56000	<270	----	----	----	----	<270	----	----	----	330
Fluorene	1000000	2500000	56000	<270	----	----	----	----	<270	----	----	----	<260
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	<270	----	----	----	----	<270	----	----	----	<260
Naphthalene	1000000	2500000	56000	<4.0	----	----	----	----	<270	----	----	----	<4.1
Phenanthrene	1000000	2500000	40000	<270	----	----	----	----	<270	----	----	----	<260
Pyrene	1000000	2500000	40000	<270	----	----	----	----	<270	----	----	----	350

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium

Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6b
Summary of Constituents Dected in Soil
AOCs 7, 8, and 12
Former Anocoil Corporation
Vernon, Connecticut

				AOC 7 and 8										
Area of Concern (AOC)														
Site ID				MW-03	MW-07			MW-09		SB-14	SB-14A	SB-16	SB-36	
Date				4/27/2015	6/16/2015			6/16/2015		4/27/2015	4/28/2015	4/27/2015	6/16/2015	
Sample Depth (feet)				10 - 11.5[D,W]	0 - 4	12.5 - 15	16 - 19.5[W]	5 - 8	8 - 10	0 - 2	5 - 8	10 - 11.5[W]	5 - 8	8 - 10
Observed Fill Thickness				Fill (11.5')	Fill	Fill	Fill (20')	Fill	Fill (10')	Fill (5'+)	---	Fill (4')	Fill	Fill (10')
Depth to Bedrock (feet)				11.5	---	---	23	---	10.5	---	8.5	12	---	10
CONSTITUENT	Res DEC	I/C DEC	GB PMC	Sheen, oil odor			Odor			Concrete at 5'				
pH (su)	NA	NA	NA	----	----	----	----	----	----	4.16	7.37	----	----	----
Metals, Total (mg/kg)														
Aluminum	[50000]	[50000]	NA	----	----	----	----	----	----	----	----	----	----	----
Arsenic	10	10	NA	----	2.4	6.5	----	1.2	----	2	3.8	----	3.2	----
Barium	4700	140000	NA	----	50.3	92.7	----	29.5	----	37.2	80.1	----	50.1	----
Cadmium	34	1000	NA	----	<0.38	1.65	----	<0.36	----	<0.43	<0.38	----	<0.38	----
Chromium	51000[T]	3900[T]	NA	----	13.4	45.5	----	13.2	----	16.8	32.2	----	18.5	----
Chromium, Hex	100	100	NA											
Copper	2500	76000	NA	----	12.1	35.4	----	----	----	13.3	9.56	----	----	----
Lead	400	1000	NA	----	38.9	93	----	46.9	75	6.89	270	----	114	131
Mercury	20	610	NA	----	0.07	0.54	----	<0.03	----	<0.03	0.28	----	0.08	----
Nickel	1400	7500	NA	----	8.54	9.51	----	----	----	8.73	4.21	----	----	----
Selenium	340	10000	NA	----	<1.5	<1.6	----	<1.4	----	<1.7	<1.5	----	<1.5	----
Silver	340	10000	NA	----	<0.38	<0.41	----	<0.36	----	<0.43	<0.38	----	<0.38	----
Zinc	20000	610000	NA	----	36.2	116	----	----	----	19.4	15.1	----	----	----
Metals, SPLP (mg/L)														
Arsenic	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	----
Barium	NA	NA	10	----	----	----	----	----	----	----	----	----	----	----
Chromium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	----
Lead	NA	NA	0.15	----	----	----	----	----	----	----	0.218 (fill)	----	0.013	----
Selenium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	<0.020	----
ETPH (mg/kg)	500	2500	2500	**1300**	<54	370	----	----	----	<63	290	<59	----	----
PCBs (mg/kg)	1	10	NA	----	----	----	----	----	----	<0.42	<0.38	----	----	----
VOCs (ug/kg)														
PID Reading (ppm)	*NA*	*NA*	*NA*	*3*	*0*	*5*	*99*	*0*	*0*	*0*	*0*	*0*	----	----
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	<5.3	----	<4.2	29000	----	----	<290	<5.0	<4.3	----	----
1,3,5-Trimethylbenzene	[500000]	[1000000]	[28000]	<5.3	----	<4.2	6600	----	----	<290	<5.0	<4.3	----	----
2-isopropyltoluene	NE	NE	NE	<5.3	----	<4.2	640	----	----	<290	<5.0	<4.3	----	----
Acetone	500000	1000000	140000	110	----	<50	<2400	----	----	<35	<30	<26	----	----
Ethylbenzene	500000	1000000	10100	<5.3	----	<4.2	29000	----	----	<5.8	<5.0	<4.3	----	----
Isopropylbenzene	[500000]	[1000000]	[5000]	<5.3	----	<4.2	25000	----	----	<290	<5.0	<4.3	----	----
Methylene chloride	82000	760000	1000	<5.3	----	<4.2	<400	----	----	<5.8	<5.0	4.4	----	----
n-Butylbenzene	[500000]	[1000000]	[70000]	<5.3	----	<4.2	<400	----	----	<290	<5.0	<4.3	----	----
n-Propylbenzene	[500000]	[1000000]	[10000]	<5.3	----	<4.2	3200	----	----	<290	<5.0	<4.3	----	----
p-Isopropyltoluene	[500000]	[1000000]	[5000]	<5.3	----	<4.2	18000	----	----	<290	<5.0	<4.3	----	----
sec-Butylbenzene	[500000]	[1000000]	[70000]	<5.3	----	<4.2	490	----	----	<290	<5.0	<4.3	----	----
Styrene	500000	1000000	20000	<5.3	----	<4.2	<400	----	----	<5.8	<5.0	<4.3	----	----
Tetrachloroethene	12000	110000	1000	<5.3	----	<4.2	<400	----	----	<5.8	<5.0	<4.3	----	----
Toluene	500000	1000000	67000	<5.3	----	<4.2	760	----	----	<5.8	<5.0	<4.3	----	----
Xylene (total)	500000	1000000	19500	<5.3	----	<4.2	29000	----	----	<5.8	<5.0	<4.3	----	----
m,p-Xylenes	NA	NA	NA	<5.3	----	<4.2	16000	----	----	<5.8	<5.0	<4.3	----	----
o-Xylene	NA	NA	NA	<5.3	----	<4.2	13000	----	----	<5.8	<5.0	<4.3	----	----
PAHs (ug/kg)														
2-Methylnaphthalene	[270000]	[1000000]	[5600]	<310	<250	1000	----	<250	----	<290	<280	<270	<520	670
Acenaphthene	[1000000]	[2500000]	[84000]	<310	<250	<280	----	<250	----	<290	<280	<270	<520	<260
Acenaphthylene	1000000	2500000	84000	1500	<250	1400	----	<250	----	<290	940	<270	2200	1900
Anthracene	1000000	2500000	400000	610	<250	850	----	<250	----	<290	830	<270	3100	3900
Benzo(a)anthracene	1000	7800	1000	**2900**	260	**2100**	----	<250	----	<290	**3200**	<270	**7600**	**10000**
Benzo(a)pyrene	1000	[[3000]]	1000	**2900**	280	**2000**	----	<250	----	<290	**2600**	<270	**7200**	**7900**
Benzo(b)fluoranthene	1000	7800	1000	**3500**	330	**2300**	----	<250	----	<290	**2800**	<270	**8100**	**11000**
Benzo(ghi)perylene	[8400]	[78000]	[1000]	600	330	880	----	<250	----	<290	870	<270	**3800**	**3600**
Benzo(k)fluoranthene	8400	78000	1000	1100	<250	740	----	<250	----	<290	890	<270	**6200**	**3600**
Chrysene	[84000]	[780000]	[1000]	3100	<250	**2100**	----	<250	----	<290	**3600**	<270	**9000**	**9900**
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	<310	<250	320	----	<250	----	<290	470	<270	850	<260
Fluoranthene	1000000	2500000	56000	1500	450	3100	----	270	----	<290	4000	<270	22000	20000
Fluorene	1000000	2500000	56000	<310	<250	380	----	<250	----	<290	<280	<270	2000	2100
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	590	310	**1000**	----	<250	----	<290	970	<270	**4000**	**4500**
Naphthalene	1000000	2500000	56000	<5.3	<250	1500	----	<250	----	<290	480	<4.3	<520	1800
Phenanthrene	1000000	2500000	40000	510	260	2600	----	<250	----	<290	2100	<270	22000	19000
Pyrene	1000000	2500000	40000	4500	420	4100	----	270	----	<290	5800	<270	18000	17000

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter

SPLP = synthetic precipitation leaching procedure

PMC = pollutant mobility criteria

DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)

NA = not applicable

NE = no established criteria

---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit

Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria

[[3000]] = DEEP-approved alternative criteria

[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

[W]Sample below water table

[T]Trivalent chromium

Indicates impacts inferred to be associated primarily with petroleum

Other detected constituents inferred to be associaed with fill

Table 6b
Summary of Constituents Dected in Soil
AOCs 7, 8, and 12
Former Anocoil Corporation
Vernon, Connecticut

				AOC 7 and 8										
			Area of Concern (AOC)											
			Site ID	SB-37		SB-51	SB-52	SB-53	SB-54		SB-55	SB-58		
			Date	6/16/2015		6/22/2015	6/22/2015	6/22/2015	6/22/2015		6/22/2015	6/23/2015		
			Sample Depth (feet)	5 - 10	10 - 11[W]	5 - 10	---	---	5.5 - 10[W]	10 - 10.5[W]	15[W]	11 - 14.5	16 - 18[W]	
			Observed Fill Thickness	Fill (2.5')	---	Fill (3')	Fill (4.5')	Fill (4+)	Fill (5.5)	---	Fill (16')	Fill (14.5')	---	
			Depth to Bedrock (feet)	---	10	11	12	---	---	10.5	16	---	19.75	
CONSTITUENT	Res DEC	I/C DEC	GB PMC		Oil odor		Oil impacts 11.5'	Concrete at 4'			Oil Odor		Oil staining at 15'	
pH (su)	NA	NA	NA	----	----	----	----	----	8.55	----	----	----	----	
Metals, Total (mg/kg)														
Aluminum	[50000]	[50000]	NA	----	----	----	----	----	----	----	----	----	----	
Arsenic	10	10	NA	----	----	----	----	----	5.6	----	----	----	----	
Barium	4700	140000	NA	----	----	----	----	----	55.4	----	----	----	----	
Cadmium	34	1000	NA	----	----	----	----	----	<0.40	----	----	----	----	
Chromium	51000[T]	3900[T]	NA	----	----	----	----	----	30.1	----	----	----	----	
Chromium, Hex	100	100	NA											
Copper	2500	76000	NA	----	----	----	----	----	----	----	----	----	----	
Lead	400	1000	NA	----	----	----	----	----	282	20.9	----	----	----	
Mercury	20	610	NA	----	----	----	----	----	0.07	----	----	----	----	
Nickel	1400	7500	NA	----	----	----	----	----	----	----	----	----	----	
Selenium	340	10000	NA	----	----	----	----	----	<1.6	----	----	----	----	
Silver	340	10000	NA	----	----	----	----	----	<0.40	----	----	----	----	
Zinc	20000	610000	NA	----	----	----	----	----	----	----	----	----	----	
Metals, SPLP (mg/L)														
Arsenic	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	
Barium	NA	NA	10	----	----	----	----	----	----	----	----	----	----	
Chromium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	
Lead	NA	NA	0.15	----	----	----	----	----	----	----	----	----	----	
Selenium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	
ETPH (mg/kg)	500	2500	2500	<53	----	<55	----	----	**4500**	**2100**	----	<59	**4500**	
PCBs (mg/kg)	1	10	NA	----	----	----	----	----	----	----	----	----	----	
VOCs (ug/kg)														
PID Reading (ppm)	*NA*	*NA*	*NA*	*0*	*0*	*0*	*0*	----	*0*	*29*	*88*	*0*	*0*	
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	<5.0	4200	----	----	----	<290	2000	----	----	----	
1,3,5-Trimethylbenzene	[500000]	[1000000]	[28000]	<5.0	340	----	----	----	<290	260	----	----	----	
2-isopropyltoluene	NE	NE	NE	<5.0	250	----	----	----	<290	<230	----	----	----	
Acetone	500000	1000000	140000	<30	<1500	----	----	----	<150	<1400	----	----	----	
Ethylbenzene	500000	1000000	10100	<5.0	480	----	----	----	<5.6	1100	----	----	----	
Isopropylbenzene	[500000]	[1000000]	[5000]	<5.0	1600	----	----	----	<290	680	----	----	----	
Methylene chloride	82000	760000	1000	<5.0	<250	----	----	----	<50	<230	----	----	----	
n-Butylbenzene	[500000]	[1000000]	[70000]	<5.0	390	----	----	----	<290	<230	----	----	----	
n-Propylbenzene	[500000]	[1000000]	[10000]	<5.0	550	----	----	----	<290	<230	----	----	----	
p-Isopropyltoluene	[500000]	[1000000]	[5000]	<5.0	2200	----	----	----	<290	380	----	----	----	
sec-Butylbenzene	[500000]	[1000000]	[70000]	<5.0	260	----	----	----	<290	<230	----	----	----	
Styrene	500000	1000000	20000	<5.0	<250	----	----	----	<5.6	660	----	----	----	
Tetrachloroethene	12000	110000	1000	<5.0	<250	----	----	----	<5.6	<230	----	----	----	
Toluene	500000	1000000	67000	<5.0	<250	----	----	----	11	470	----	----	----	
Xylene (total)	500000	1000000	19500	<5.0	1870	----	----	----	23.4	3600	----	----	----	
m,p-Xylenes	NA	NA	NA	<5.0	920	----	----	----	14	1500	----	----	----	
o-Xylene	NA	NA	NA	<5.0	950	----	----	----	9.4	2100	----	----	----	
PAHs (ug/kg)														
2-Methylnaphthalene	[270000]	[1000000]	[5600]	<240	----	<250	----	----	<1300	6000	----	----	----	
Acenaphthene	[1000000]	[2500000]	[84000]	<240	----	<250	----	----	<1300	3300	----	----	----	
Acenaphthylene	1000000	2500000	84000	<240	----	<250	----	----	7300	12000	----	----	----	
Anthracene	1000000	2500000	400000	<240	----	<250	----	----	3500	2900	----	----	----	
Benzo(a)anthracene	1000	7800	1000	<240	----	<250	----	----	**22000**	**11000**	----	----	----	
Benzo(a)pyrene	1000	[[3000]]	1000	<240	----	<250	----	----	**17000**	**11000**	----	----	----	
Benzo(b)fluoranthene	1000	7800	1000	<240	----	<250	----	----	**7700**	**4900**	----	----	----	
Benzo(ghi)perylene	[8400]	[78000]	[1000]	<240	----	<250	----	----	6300	4100	----	----	----	
Benzo(k)fluoranthene	8400	78000	1000	<240	----	<250	----	----	**15000**	7900	----	----	----	
Chrysene	[84000]	[780000]	[1000]	<240	----	<250	----	----	38000	12000	----	----	----	
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	<240	----	<250	----	----	**2300**	<2600	----	----	----	
Fluoranthene	1000000	2500000	56000	<240	----	<250	----	----	23000	8600	----	----	----	
Fluorene	1000000	2500000	56000	<240	----	<250	----	----	<1300	3700	----	----	----	
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	<240	----	<250	----	----	**6300**	**4400**	----	----	----	
Naphthalene	1000000	2500000	56000	<5.0	----	<250	----	----	440	26000	----	----	----	
Phenanthrene	1000000	2500000	40000	<240	----	<250	----	----	6800	5800	----	----	----	
Pyrene	1000000	2500000	40000	<240	----	<250	----	----	53000	20000	----	----	----	

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter

SPLP = synthetic precipitation leaching procedure

PMC = pollutant mobility criteria

DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)

NA = not applicable

NE = no established criteria

---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit

Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria

[[3000]] = DEEP-approved alternative criteria

[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

[W]Sample below water table

[T]Trivalent chromium

Indicates impacts inferred to be associated primarily with petroleum

Other detected constituents inferred to be associaed with fill

Table 6b
Summary of Constituents Dected in Soil
AOCs 7, 8, and 12
Former Anocoil Corporation
Vernon, Connecticut

				AOC 7 Pipe Trench											
Area of Concern (AOC)															
Site ID				MW-04			SB-46		SB-48		SB-49		SB-50		
Date				4/28/2015			6/22/2015		6/22/2015		6/22/2015		6/22/2015		
Sample Depth (feet)				*2 - 4*	*5 - 7*	8 - 9[W]	0 - 4	5 - 7.5	*5 - 7*	8 - 10[W]	6 - 8	11 - 13[W,D]	6 - 8	10 - 11[W]	
Observed Fill Thickness				*Fill*	*Fill*	Fill (9')	Fill	Fill (7.5')	*Fill*	Fill (10')	Fill (7.5')	---	Fill	Fill (11')	
Depth to Bedrock (feet)				---	---	12.5	---	7.5	---	10	---	13	---	11	
CONSTITUENT	Res DEC	I/C DEC	GB PMC	*Excavated*	*Excavated*				*Excavated*			Oil odor			
pH (su)	NA	NA	NA	*7.43*	*6.12*	----	----	----	*7.05*	----	----	6.88	7.1	----	
Metals, Total (mg/kg)															
Aluminum	[50000]	[50000]	NA	*2170*	*4190*	----	----	----	*4310*	----	----	14000	8310	----	
Arsenic	10	10	NA	----	***16.9***	**45.6**	----	----	***14.6***	**15**	----	4.9	**14.6**	1.1	
Barium	4700	140000	NA	----	*85.7*	268	----	----	*88.8*	----	----	75.4	85.1	----	
Cadmium	34	1000	NA	----	*0.48*	0.64	----	----	*<0.40*	----	----	0.61	0.48	----	
Chromium	51000[T]	3900[T]	NA	----	*53.2*	838	----	----	*72*	----	----	112	337	17.8	
Chromium, Hex	100	100	NA	----	----	**----**			----	----	----	**----**	<0.48	----	
Copper	2500	76000	NA	----	*75.3*	44.5	----	----	----	----	----	----	----	----	
Lead	400	1000	NA	----	*187*	77.7	----	----	*66.8*	----	----	135	142	1.57	
Mercury	20	610	NA	----	*0.46*	0.05	----	----	*0.06*	----	----	0.35	0.13	----	
Nickel	1400	7500	NA	----	*12.2*	15.5	----	----	----	----	----	----	----	----	
Selenium	340	10000	NA	----	*<1.5*	<1.8	----	----	*<1.6*	----	----	<2.1	<1.5	----	
Silver	340	10000	NA	----	*<0.39*	<0.45	----	----	*<0.40*	----	----	<0.51	<0.37	----	
Zinc	20000	610000	NA	----	*41.9*	37.3	----	----	----	----	----	----	----	----	
Metals, SPLP (mg/L)															
Arsenic	NA	NA	0.5	----	*0.008*	0.018	----	----	----	----	----	----	----	----	
Barium	NA	NA	10	----	----	0.042	----	----	----	----	----	----	----	----	
Chromium	NA	NA	0.5	----	*0.016*	0.123	----	----	----	----	----	----	----	----	
Lead	NA	NA	0.15	----	*0.041*	0.02	----	----	----	----	----	----	----	----	
Selenium	NA	NA	0.5	----	----	----	----	----	----	----	----	----	----	----	
ETPH (mg/kg)	500	2500	2500	----	***1300***	**1000**	170	----	***3600***	<60	<55	**9000**	380	----	
PCBs (mg/kg)	1	10	NA	----	*<0.4*	<0.46	----	----	----	----	----	----	----	----	
VOCs (ug/kg)															
PID Reading (ppm)	*NA*	*NA*	*NA*	*0*	*0*	*23*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	*0*	
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	----	*<400*	<440	----	----	*<450*	----	<300	290	<330	----	
1,3,5-Trimethylbenzene	[500000]	[1000000]	[28000]	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
2-isopropyltoluene	NE	NE	NE	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
Acetone	500000	1000000	140000	----	*<200*	<42	----	----	*<47*	----	<32	<2600	<30	----	
Ethylbenzene	500000	1000000	10100	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
Isopropylbenzene	[500000]	[1000000]	[5000]	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
Methylene chloride	82000	760000	1000	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
n-Butylbenzene	[500000]	[1000000]	[70000]	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
n-Propylbenzene	[500000]	[1000000]	[10000]	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
p-Isopropyltoluene	[500000]	[1000000]	[5000]	----	*<400*	<440	----	----	*<450*	----	<300	440	<330	----	
sec-Butylbenzene	[500000]	[1000000]	[70000]	----	*<400*	<440	----	----	*<450*	----	<300	<430	<330	----	
Styrene	500000	1000000	20000	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
Tetrachloroethene	12000	110000	1000	----	*8.1*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
Toluene	500000	1000000	67000	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
Xylene (total)	500000	1000000	19500	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
m,p-Xylenes	NA	NA	NA	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
o-Xylene	NA	NA	NA	----	*<7.6*	<6.9	----	----	*<7.8*	----	<5.3	<430	<4.9	----	
PAHs (ug/kg)															
2-Methylnaphthalene	[270000]	[1000000]	[5600]	----	*800*	<320	<270	<270	*3900*	<280	<260	67000	770	<280	
Acenaphthene	[1000000]	[2500000]	[84000]	----	*<280*	390	<270	<270	*<2800*	<280	<260	<9100	<550	<280	
Acenaphthylene	1000000	2500000	84000	----	*<280*	490	<270	<270	*<2800*	<280	400	29000	760	<280	
Anthracene	1000000	2500000	400000	----	*<280*	1200	1500	290	*<2800*	<280	<260	30000	<550	<280	
Benzo(a)anthracene	1000	7800	1000	----	***1300***	**1500**	**3800**	540	***<2800***	<280	260	**19000**	580	<280	
Benzo(a)pyrene	1000	[[3000]]	1000	----	***1400***	980	**3000**	480	***<2800***	<280	300	**12000**	**1100**	<280	
Benzo(b)fluoranthene	1000	7800	1000	----	***1400***	910	**3200**	630	***<2800***	<280	400	**12000**	**1100**	<280	
Benzo(ghi)perylene	[8400]	[78000]	[1000]	----	*1400*	540	**1400**	350	***5100***	<280	340	**<9100**	**1700**	<280	
Benzo(k)fluoranthene	8400	78000	1000	----	*710*	380	**2700**	<270	***<2800***	<280	<260	**<9100**	<550	<280	
Chrysene	[84000]	[780000]	[1000]	----	***1400***	**2200**	**4000**	430	***<2800***	<280	280	19000	690	<280	
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	----	*<280*	<320	370	<270	***<2800***	<280	<260	**<9100**	<550	<280	
Fluoranthene	1000000	2500000	56000	----	*1300*	2000	8100	1200	*<2800*	<280	490	39000	850	<280	
Fluorene	1000000	2500000	56000	----	*<280*	530	530	<270	*<2800*	<280	<260	24000	<550	<280	
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	----	*750*	510	**1600**	390	*<2800*	<280	300	**<9100**	830	<280	
Naphthalene	1000000	2500000	56000	----	*520*	<320	<270	<270	*<450*	<280	<260	45000	<330	<280	
Phenanthrene	1000000	2500000	40000	----	*760*	9200	6000	950	*<2800*	<280	300	180000	610	<280	
Pyrene	1000000	2500000	40000	----	*1300*	2800	7100	940	*21000*	<280	440	55000	1600	<280	

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium
Italicized text = sample location excavated during remediation
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6b
Summary of Constituents Dected in Soil
AOCs 7, 8, and 12
Former Anocoil Corporation
Vernon, Connecticut

				AOC 12				
			Area of Concern (AOC)					
			Site ID	SB-01	SB-02	SB-59	SB-60	SB-61
			Date	4/24/2015	4/24/2015	6/23/2015	6/23/2015	6/23/2015
			Sample Depth (feet)	0.6 - 1.5	1.1 - 2.5[W]	2.5 - 4[W]	0.5 - 1[W]	6 - 8[W]
			Observed Fill Thickness	---	Fill (2.5'+)	Fill (2')	---	---
			Depth to Bedrock (feet)	---	---	9	---	---
CONSTITUENT	Res DEC	I/C DEC	GB PMC	Oil odor, oily	Sheen			Oil staining 5.5' - 6'
pH (su)	NA	NA	NA	----	----	----	----	----
Metals, Total (mg/kg)								
Aluminum	[50000]	[50000]	NA	----	----	----	----	----
Arsenic	10	10	NA	----	----	----	----	----
Barium	4700	140000	NA	----	----	----	----	----
Cadmium	34	1000	NA	----	----	----	----	----
Chromium	51000[T]	3900[T]	NA	----	----	----	----	----
Chromium, Hex	100	100	NA					
Copper	2500	76000	NA	----	----	----	----	----
Lead	400	1000	NA	----	----	----	----	----
Mercury	20	610	NA	----	----	----	----	----
Nickel	1400	7500	NA	----	----	----	----	----
Selenium	340	10000	NA	----	----	----	----	----
Silver	340	10000	NA	----	----	----	----	----
Zinc	20000	610000	NA	----	----	----	----	----
Metals, SPLP (mg/L)								
Arsenic	NA	NA	0.5	----	----	----	----	----
Barium	NA	NA	10	----	----	----	----	----
Chromium	NA	NA	0.5	----	----	----	----	----
Lead	NA	NA	0.15	----	----	----	----	----
Selenium	NA	NA	0.5	----	----	----	----	----
ETPH (mg/kg)	500	2500	2500	**23000**	**1100**	<60	<61	<79
PCBs (mg/kg)	1	10	NA	----	----	----	----	----
VOCs (ug/kg)								
PID Reading (ppm)	*NA*	*NA*	*NA*	*1*	*0*	*0*	*0*	*0*
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]	<390	<3.5	----	----	----
1,3,5-Trimethylbenzene	[500000]	[1000000]	[28000]	<390	<3.5	----	----	----
2-isopropyltoluene	NE	NE	NE	<390	<3.5	----	----	----
Acetone	500000	1000000	140000	<71	<21	----	----	----
Ethylbenzene	500000	1000000	10100	<7.1	<3.5	----	----	----
Isopropylbenzene	[500000]	[1000000]	[5000]	<390	<3.5	----	----	----
Methylene chloride	82000	760000	1000	<7.1	<3.5	----	----	----
n-Butylbenzene	[500000]	[1000000]	[70000]	<390	<3.5	----	----	----
n-Propylbenzene	[500000]	[1000000]	[10000]	<390	<3.5	----	----	----
p-Isopropyltoluene	[500000]	[1000000]	[5000]	<390	<3.5	----	----	----
sec-Butylbenzene	[500000]	[1000000]	[70000]	<390	<3.5	----	----	----
Styrene	500000	1000000	20000	<7.1	<3.5	----	----	----
Tetrachloroethene	12000	110000	1000	<7.1	<3.5	----	----	----
Toluene	500000	1000000	67000	<7.1	<3.5	----	----	----
Xylene (total)	500000	1000000	19500	<7.1	<3.5	----	----	----
m,p-Xylenes	NA	NA	NA	<7.1	<3.5	----	----	----
o-Xylene	NA	NA	NA	<7.1	<3.5	----	----	----
PAHs (ug/kg)								
2-Methylnaphthalene	[270000]	[1000000]	[5600]	**18000**	1200	<280	<280	<370
Acenaphthene	[1000000]	[2500000]	[84000]	<7100	<620	<280	<280	<370
Acenaphthylene	1000000	2500000	84000	<7100	<620	<280	<280	<370
Anthracene	1000000	2500000	400000	<7100	<620	<280	<280	<370
Benzo(a)anthracene	1000	7800	1000	**<7100**	640	<280	950	<370
Benzo(a)pyrene	1000	[[3000]]	1000	**11000**	650	<280	870	<370
Benzo(b)fluoranthene	1000	7800	1000	**<7100**	630	<280	**1200**	<370
Benzo(ghi)perylene	[8400]	[78000]	[1000]	<7100	<620	<280	520	<370
Benzo(k)fluoranthene	8400	78000	1000	**<7100**	<620	<280	510	<370
Chrysene	[84000]	[780000]	[1000]	**<7100**	800	<280	870	<370
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]	**<7100**	<620	<280	<280	<370
Fluoranthene	1000000	2500000	56000	<7100	950	<280	1700	<370
Fluorene	1000000	2500000	56000	<7100	<620	<280	<280	<370
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]	**<7100**	<620	<280	590	<370
Naphthalene	1000000	2500000	56000	<390	<3.5	<280	<280	<370
Phenanthrene	1000000	2500000	40000	22000	780	<280	850	<370
Pyrene	1000000	2500000	40000	**44000**	1100	<280	1500	<370

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium
Italicized text = sample location Indicates impacts inferred to be associated strictly with fill
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6c
Summary of Constituents Dected in Soil
AOCs 20 and 102
Former Anocoil Corporation
Vernon, Connecticut

				Site ID	MW-10		SB-21	SB-22	SB-23	SB-38	SB-39	SB-40	SB-41		SB-43
				Date	6/18/2015		4/28/2015	4/28/2015	4/28/2015	6/18/2015	6/18/2015	6/18/2015	6/18/2015		6/18/2015
				Sample Depth (feet)	3 - 5	6 - 8	0.5 - 2.5	1 - 4	1 - 4	0.75 - 2.5	0 - 3.5	5 - 9	0.5 - 2	5 - 10	0.5 - 2.5[D]
				Observed Fill Thickness	Fill (3.5')	---	Fill (1')	Fill (1.5')	Fill (3')	Fill (2.5')	---	---	Fill (2')	---	Fill (3')
				Depth to Bedrock (feet)	---	17.5	---	---	---	3	3.5	9	---	---	---
CONSTITUENT	Res DEC	I/C DEC	GB PMC		Concrete at 3.5'										
Metals, Total (mg/kg)															
Antimony	27	8200	NA		----	----	<3.9	<3.9	<3.8	----	----	----	----	----	----
Arsenic	10	10	NA		3	----	2.8	2.7	4.8	3.8	6.9	4	**18.4**	2.2	8.9
Barium	4700	140000	NA		63	----	115	58.9	158	96.8	658	229	32	----	139
Cadmium	34	1000	NA		<0.36	----	<0.39	<0.39	0.56	<0.34	0.43	<0.36	<0.40	----	<0.35
Chromium	51000[T]	3900[T]	NA		24.4	----	50.2	37.7	25.3	970	42.5	321	210	82.7	19.1
Chromium, Hex	100	100	NA		----	----	----	----	----	5.52	----	**----**	**----**	----	----
Copper	2500	76000	NA		14.3	----	145	----	----	76	61.3	34.4	52.4	----	42.7
Lead	400	1000	NA		96.6	----	46.1	286	250	180	**1790**	162	113	5.28	321
Mercury	20	610	NA		0.17	----	0.05	0.1	0.08	0.05	0.27	0.46	0.24	----	0.17
Nickel	1400	7500	NA		3.91	----	20.5	----	----	10.7	17.3	13.7	12.6	----	12.6
Selenium	340	10000	NA		<1.4	----	<1.5	<1.6	<1.5	<1.3	<1.5	<1.5	<1.6	----	<1.4
Silver	340	10000	NA		<0.36	----	<0.39	<0.39	<0.38	<0.34	<0.38	<0.36	<0.40	----	<0.35
Zinc	20000	610000	NA		7.04	----	52.4	----	----	186	634	77.7	39.2	----	115
Metals, SPLP (mg/L)															
Arsenic	NA	NA	0.5		----	----	----	----	----	----	----	----	0.008	----	----
Barium	NA	NA	10		----	----	----	----	----	----	0.087	----	----	----	----
Chromium	NA	NA	0.5		----	----	<0.010	----	----	0.022	----	0.024	0.29	----	----
Lead	NA	NA	0.15		----	----	----	0.053	0.031	<0.010	<0.010	----	0.071	----	0.026
VOCs (ug/kg)															
Styrene	500000	1000000	20000		<4.6	<4.2	<4.8	<4.3	6700	<5.4	<5.4	<5.0	<8.0	<4.8	<5.1
Tetrachloroethene	12000	110000	1000		<4.6	<4.2	<4.8	<4.3	430	<5.4	350	<5.0	950	<4.8	<5.1
Trichloroethene	56000	520000	1000		<4.6	<4.2	<4.8	<4.3	<5.0	<5.4	<5.4	<5.0	9.2	<4.8	<5.1
PAHs (ug/kg)															
2-Methylnaphthalene	[270000]	[1000000]	[5600]		<260	----	<270	<260	460	<250	<2700	<260	<540	----	<260
Acenaphthene	[1000000]	[2500000]	[84000]		<260	----	<270	<260	<280	<250	<2700	<260	<540	----	<260
Acenaphthylene	1000000	2500000	84000		<260	----	<270	<260	<280	<250	<2700	<260	<540	----	1300
Anthracene	1000000	2500000	400000		<260	----	<270	510	<280	<250	<2700	<260	<540	----	860
Benzo(a)anthracene	1000	7800	1000		<260	----	<270	**1600**	<280	<250	**<2700**	440	<540	----	**2000**
Benzo(a)pyrene	1000	[[3000]]	1000		<260	----	<270	**1600**	<280	<250	**<2700**	440	<540	----	**2000**
Benzo(b)fluoranthene	1000	7800	1000		<260	----	<270	**2400**	320	<250	**<2700**	590	<540	----	**2500**
Benzo(ghi)perylene	[8400]	[78000]	[1000]		<260	----	<270	350	<280	<250	<2700	330	<540	----	**1300**
Benzo(k)fluoranthene	8400	78000	1000		<260	----	<270	810	<280	<250	**<2700**	<260	<540	----	800
Chrysene	[84000]	[780000]	[1000]		<260	----	<270	**1700**	<280	<250	<2700	430	<540	----	**2200**
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]		<260	----	<270	<260	<280	<250	**<2700**	<260	<540	----	290
Fluoranthene	1000000	2500000	56000		<260	----	<270	4400	310	<250	<2700	840	<540	----	3600
Fluorene	1000000	2500000	56000		<260	----	<270	<260	<280	<250	<2700	<260	<540	----	290
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]		<260	----	<270	350	<280	<250	**<2700**	360	<540	----	**1200**
Naphthalene	1000000	2500000	56000		<4.6	----	<4.8	<4.3	<280	<5.4	960	<5.0	<230	----	<5.1
Phenanthrene	1000000	2500000	40000		<260	----	<270	4000	370	<250	<2700	460	<540	----	2500
Pyrene	1000000	2500000	40000		<260	----	<270	3300	300	<250	<2700	720	<540	----	3900
Other SVOCs (ug/kg)															
Acetophenone	NE	NE	NE		<260	----	<270	<260	2800	<250	<2700	<260	<540	----	<260
Benzoic acid	[1000000]	[2500000]	[200000]		<1100	----	<1100	<1100	1400	<1000	<11000	<1100	<2200	----	<1100
Bis(2-ethylhexyl)phthalate	44000	410000	11000		<260	----	<270	<260	390	<250	<2700	<260	<540	----	<260
Dibenzofuran	[68000]	[1000000]	[1400]		<260	----	<270	270	<280	<250	<2700	<260	<540	----	<260
Dimethyl phthalate	[1000000]	[2500000]	[200000]		<260	----	<270	<260	6200	<250	<2700	<260	<540	----	<260

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6c
Summary of Constituents Dected in Soil
AOCs 20 and 102
Former Anocoil Corporation
Vernon, Connecticut

				Site ID	SB-69		SB-70		SB-71	SB-72	SB-73	SB-74	SB-75
				Date	6/9/2016		6/9/2016		6/9/2016	6/10/2016	7/22/2016	7/22/2016	7/22/2016
				Sample Depth (feet)	0.2 - 1	1.5 - 2	0.2 - 2[D]	3 - 4	0 - 0.5	0 - 1	0.5 - 2	0.5 - 2	0.5 - 2
				Observed Fill Thickness	Fill	Fill (2.5')	Fill	Fill (10'+)	Fill (0.5')	---	Fill	Fill	Fill
				Depth to Bedrock (feet)	---	---	---	---	---	---	---	---	---
CONSTITUENT	Res DEC	I/C DEC	GB PMC										
Metals, Total (mg/kg)													
Antimony	27	8200	NA		----	----	----	----	----	----	----	----	----
Arsenic	10	10	NA		----	----	----	----	----	----	----	----	----
Barium	4700	140000	NA		----	----	----	----	----	----	----	----	----
Cadmium	34	1000	NA		----	----	----	----	----	----	----	----	----
Chromium	51000[T]	3900[T]	NA		----	----	----	----	----	----	----	----	----
Chromium, Hex	100	100	NA		----	----	----	----	----	----	----	----	----
Copper	2500	76000	NA		----	----	----	----	----	----	----	----	----
Lead	400	1000	NA		----	----	----	----	----	----	----	----	----
Mercury	20	610	NA		----	----	----	----	----	----	----	----	----
Nickel	1400	7500	NA		----	----	----	----	----	----	----	----	----
Selenium	340	10000	NA		----	----	----	----	----	----	----	----	----
Silver	340	10000	NA		----	----	----	----	----	----	----	----	----
Zinc	20000	610000	NA		----	----	----	----	----	----	----	----	----
Metals, SPLP (mg/L)													
Arsenic	NA	NA	0.5		----	----	----	----	----	----	----	----	----
Barium	NA	NA	10		----	----	----	----	----	----	----	----	----
Chromium	NA	NA	0.5		----	----	----	----	----	----	----	----	----
Lead	NA	NA	0.15		----	----	----	----	----	----	----	----	----
VOCs (ug/kg)													
Styrene	500000	1000000	20000		<5.5	<6.2	<3.1	<4.8	<9.6	<4.6	----	----	----
Tetrachloroethene	12000	110000	1000		550	<6.2	580	<4.8	<9.6	<4.6	<3.8	<3.3	<2.9
Trichloroethene	56000	520000	1000		<5.5	<6.2	<3.1	<4.8	<9.6	<4.6	<3.8	<3.3	<2.9
PAHs (ug/kg)													
2-Methylnaphthalene	[270000]	[1000000]	[5600]		----	----	----	----	----	----	----	----	----
Acenaphthene	[1000000]	[2500000]	[84000]		----	----	----	----	----	----	----	----	----
Acenaphthylene	1000000	2500000	84000		----	----	----	----	----	----	----	----	----
Anthracene	1000000	2500000	400000		----	----	----	----	----	----	----	----	----
Benzo(a)anthracene	1000	7800	1000		----	----	----	----	----	----	----	----	----
Benzo(a)pyrene	1000	[[3000]]	1000		----	----	----	----	----	----	----	----	----
Benzo(b)fluoranthene	1000	7800	1000		----	----	----	----	----	----	----	----	----
Benzo(ghi)perylene	[8400]	[78000]	[1000]		----	----	----	----	----	----	----	----	----
Benzo(k)fluoranthene	8400	78000	1000		----	----	----	----	----	----	----	----	----
Chrysene	[84000]	[780000]	[1000]		----	----	----	----	----	----	----	----	----
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]		----	----	----	----	----	----	----	----	----
Fluoranthene	1000000	2500000	56000		----	----	----	----	----	----	----	----	----
Fluorene	1000000	2500000	56000		----	----	----	----	----	----	----	----	----
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]		----	----	----	----	----	----	----	----	----
Naphthalene	1000000	2500000	56000		----	----	----	----	----	----	----	----	----
Phenanthrene	1000000	2500000	40000		----	----	----	----	----	----	----	----	----
Pyrene	1000000	2500000	40000		----	----	----	----	----	----	----	----	----
Other SVOCs (ug/kg)													
Acetophenone	NE	NE	NE		----	----	----	----	----	----	----	----	----
Benzoic acid	[1000000]	[2500000]	[200000]		----	----	----	----	----	----	----	----	----
Bis(2-ethylhexyl)phthalate	44000	410000	11000		----	----	----	----	----	----	----	----	----
Dibenzofuran	[68000]	[1000000]	[1400]		----	----	----	----	----	----	----	----	----
Dimethyl phthalate	[1000000]	[2500000]	[200000]		----	----	----	----	----	----	----	----	----

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6d
Summary of Constituents Dected in Soil
AOC 101
Former Anocoil Corporation
Vernon, Connecticut

				Site ID	MW-01		MW-02	MW-11	MW-15		SB-11	SB-13	SB-25	SB-29	
				Date	4/27/2015		4/27/2015	6/8/2016	6/9/2016		4/27/2015	4/27/2015	4/29/2015	6/16/2015	
				Sample Depth (feet)	6 - 7	15 - 17[W]	11 - 13[W]	0 - 1.5	10.75 - 11.25	15.25 - 16.5	9 - 10	7.5 - 10	2 - 5[D]	0 - 4	13 - 15
				Observed Fill Thickness	Fill	Fill (17')	Fill (13')	Fill (10.5')	Fill	Fill (21.5')	Fill (13')	Fill (13')	Fill (20'+)	Fill	Fill (20')
				Depth to Bedrock (feet)	---	---	---		---	23	---	---	---	---	25
CONSTITUENT	Res DEC	I/C DEC	GB PMC			Slight oil odor	Faint odor								
Metals, Total (mg/kg)															
Antimony	27	8200	NA		<3.4	----	<3.7				----	----	----	----	----
Arsenic	10	10	NA		6	----	4.9	1.8	----	----	4	3.9	2.3	1.6	3.8
Barium	4700	140000	NA		86.8	----	119	37.5	----	----	61.3	44.8	61	47.3	138
Cadmium	34	1000	NA		<0.34	----	0.6	<0.35	----	----	0.55	<0.41	<0.34	<0.34	<0.39
Chromium	51000[T]	3900[T]	NA		13.5	----	27.6	8.66	----	----	14.6	13.1	18.8	12.3	20.6
Copper	2500	76000	NA		34	----	72.3	10.6	----	----	109	17.1	13.2	14.1	57.9
Lead	400	1000	NA		221	----	284	37.6	----	----	139	74.7	29.5	40	168
Mercury	20	610	NA		1.96	----	0.24	<0.03	----	----	0.67	0.13	<0.03	0.05	0.28
Nickel	1400	7500	NA		8.08	----	15.1	5.62	----	----	17.8	8.93	9.54	7.58	9.87
Selenium	340	10000	NA		<1.4	----	<1.5	<1.4	----	----	<1.4	<1.6	<1.4	<1.4	<1.6
Silver	340	10000	NA		<0.34	----	<0.37	<0.35	----	----	<0.35	<0.41	<0.34	<0.34	<0.39
Zinc	20000	610000	NA		94.6	----	206	40.5	----	----	68	48.3	34.1	36.9	102
Metals, SPLP (mg/L)															
Arsenic	NA	NA	0.5		----	----	----	----	----	----	----	----	----	----	----
Lead	NA	NA	0.15		0.152 (fill)	----	0.048	----	----	----	----	----	----	----	----
Mercury	NA	NA	0.02		<0.0005	----	----				----	----	----	----	----
ETPH (mg/kg)	500	2500	2500		190	<60	89	160	**31000**	<53	400	<58	**660**	140	84
PCBs (mg/kg)	1	10	NA		<0.37	----	<0.37	----	----	----	<0.36	<0.38	<0.37	----	----
VOCs (ug/kg)															
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]		<250	----	<250	----	<540	<4.2	<240	<240	<290	----	----
Acetone	500000	1000000	140000		<28	----	51	----	<27000	<210	<28	<27	<28	----	----
PAHs (ug/kg)															
2-Methylnaphthalene	[270000]	[1000000]	[5600]		<260	----	<260	<250	**22000**	<250	<260	<270	860	<240	<250
Acenaphthene	[1000000]	[2500000]	[84000]		<260	----	<260	<250	<1700	<250	<260	<270	600	<240	<250
Acenaphthylene	1000000	2500000	84000		<260	----	420	330	<1700	<250	650	<270	4600	<240	<250
Anthracene	1000000	2500000	400000		<260	----	430	280	4100	<250	1100	<270	5100	<240	<250
Benzo(a)anthracene	1000	7800	1000		420	----	**1200**	**2200**	**2500**	<250	**5200**	660	**9400**	<240	460
Benzo(a)pyrene	1000	[[3000]]	1000		480	----	**1200**	**2500**	**1900**	<250	**5000**	740	**6800**	<240	490
Benzo(b)fluoranthene	1000	7800	1000		680	----	**1300**	**2100**	<1700	<250	**7000**	920	**7100**	<240	470
Benzo(ghi)perylene	[8400]	[78000]	[1000]		390	----	880	**1400**	<1700	<250	**4000**	640	**1500**	<240	260
Benzo(k)fluoranthene	8400	78000	1000		<260	----	480	**1800**	<1700	<250	**1600**	350	**2200**	<240	460
Chrysene	[84000]	[780000]	[1000]		640	----	1300	**2200**	**3300**	<250	**6000**	910	**8600**	<240	550
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]		<260	----	300	360	<1700	<250	<260	<270	730	<240	<250
Fluoranthene	1000000	2500000	56000		1000	----	2400	3800	3000	<250	9700	1600	19000	<240	860
Fluorene	1000000	2500000	56000		<260	----	<260	<250	3400	<250	290	<270	4300	<240	<250
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]		350	----	760	**1500**	<1700	<250	**3400**	530	**1500**	<240	280
Naphthalene	1000000	2500000	56000		<250	----	1700	<250	5000	<4.2	280	<240	360	<240	<250
Phenanthrene	1000000	2500000	40000		750	----	1400	940	16000	<250	5500	1100	27000	<240	670
Pyrene	1000000	2500000	40000		910	----	2300	4000	25000	<250	8800	1500	22000	<240	830

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter
SPLP = synthetic precipitation leaching procedure
PMC = pollutant mobility criteria
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
[W]Sample below water table
[T]Trivalent chromium
Indicates impacts inferred to be associated primarily with petroleum
Other detected constituents inferred to be associaed with fill

Table 6d
Summary of Constituents Dected in Soil
AOC 101
Former Anocoil Corporation
Vernon, Connecticut

				Site ID	SB-30		SB-31		SB-44	SB-45			SB-67		SB-68
				Date	6/16/2015		6/16/2015		6/18/2015	6/18/2015			6/8/2016		6/9/2016
				Sample Depth (feet)	0.5 - 4	12.5 - 14.5[D]	0 - 4	5 - 8	0 - 4	0.5 - 5	13 - 15	16.5 - 17[W]	6.5 - 7.5	10 - 11	0-14
				Observed Fill Thickness	Fill	Fill (18')	Fill	Fill (12')	Fill (4')	Fill	Fill	Fill (17')	Fill (6')	---	Fill (6'+')
				Depth to Bedrock (feet)		19.75	---	12	---	---	---	17	---	15	14
CONSTITUENT	Res DEC	I/C DEC	GB PMC								Petroleum residue				No samples collected; no petroleum impacts observed
Metals, Total (mg/kg)															
Antimony	27	8200	NA		----	----	----	----	----	----	----	----			
Arsenic	10	10	NA		0.9	8.7	1.4	7.8	8.5	0.9	**69.6**	2.9	----	----	----
Barium	4700	140000	NA		29.7	110	35.4	84.6	70.6	57.1	74.7	----	----	----	----
Cadmium	34	1000	NA		<0.33	0.94	<0.35	0.8	<0.45	<0.35	0.42	----	----	----	----
Chromium	51000[T]	3900[T]	NA		8.17	31.6	9.26	26	19.6	7.46	25.3	----	----	----	----
Copper	2500	76000	NA		11.2	52.9	11.9	107	10.3	12.4	51.9	----	----	----	----
Lead	400	1000	NA		3.01	190	29.8	273	22.8	17.4	208	9.93	----	----	----
Mercury	20	610	NA		<0.03	0.25	<0.03	0.22	0.06	<0.03	0.17	----	----	----	----
Nickel	1400	7500	NA		5.29	14.6	6.52	15.3	12.2	4.9	20	----	----	----	----
Selenium	340	10000	NA		<1.3	<1.4	<1.4	<1.6	<1.8	<1.4	<1.6	----	----	----	----
Silver	340	10000	NA		<0.33	<0.35	<0.35	<0.40	<0.45	<0.35	<0.40	----	----	----	----
Zinc	20000	610000	NA		12.1	106	29.3	121	57.5	27.2	71.5	----	----	----	----
Metals, SPLP (mg/L)															
Arsenic	NA	NA	0.5		----	----	----	----	----	----	0.038	----	----	----	----
Lead	NA	NA	0.15		----	----	----	----	----	----	0.039	----	----	----	----
Mercury	NA	NA	0.02		----	----	----	----	----	----	----	----			
ETPH (mg/kg)	500	2500	2500		<53	<56	<55	<57	<63	240	**13000**	190	110	<55	----
PCBs (mg/kg)	1	10	NA		----	----	----	----	----	----	<0.44	----	----	----	----
VOCs (ug/kg)															
1,2,4-Trimethylbenzene	[500000]	[1000000]	[28000]		----	----	----	----	----	----	420	----	<4.7	<4.3	----
Acetone	500000	1000000	140000		----	----	----	----	----	----	<3100	----	<240	<220	----
PAHs (ug/kg)															
2-Methylnaphthalene	[270000]	[1000000]	[5600]		<250	<270	<260	370	<290	<250	**130000**	1100	<250	<260	----
Acenaphthene	[1000000]	[2500000]	[84000]		<250	<270	<260	<260	<290	<250	<3100	<280	<250	<260	----
Acenaphthylene	1000000	2500000	84000		<250	<270	370	370	<290	360	<3100	<280	<250	<260	----
Anthracene	1000000	2500000	400000		<250	<270	<260	710	<290	550	15000	<280	<250	<260	----
Benzo(a)anthracene	1000	7800	1000		<250	800	**1600**	**1600**	<290	**3400**	**6300**	<280	<250	<260	----
Benzo(a)pyrene	1000	[[3000]]	1000		<250	800	**1700**	**1300**	<290	**4100**	**5700**	280	<250	<260	----
Benzo(b)fluoranthene	1000	7800	1000		<250	940	**2100**	**1700**	<290	**4900**	**<3100**	<280	<250	<260	----
Benzo(ghi)perylene	[8400]	[78000]	[1000]		<250	510	1000	660	<290	**3200**	**8300**	350	<250	<260	----
Benzo(k)fluoranthene	8400	78000	1000		<250	600	790	560	<290	**1500**	<3100	<280	<250	<260	----
Chrysene	[84000]	[780000]	[1000]		<250	900	**1400**	**1500**	<290	**3700**	**9200**	<280	<250	<260	----
Dibenzo(a,h)anthracene	[1000]	[1000]	[1000]		<250	<270	<260	<260	<290	660	**<3100**	<280	<250	<260	----
Fluoranthene	1000000	2500000	56000		<250	1000	2300	3200	<290	5000	4500	<280	<250	<260	----
Fluorene	1000000	2500000	56000		<250	<270	<260	430	<290	<250	15000	<280	<250	<260	----
Indeno(1,2,3-CD)pyrene	[1000]	[7800]	[1000]		<250	450	**1100**	770	<290	**2600**	**<3100**	470	<250	<260	----
Naphthalene	1000000	2500000	56000		<250	<270	<260	780	<290	<250	32000	300	<4.7	<4.3	----
Phenanthrene	1000000	2500000	40000		<250	1100	450	2900	<290	2200	**51000**	800	<250	<260	----
Pyrene	1000000	2500000	40000		<250	1000	2300	2900	<290	4400	34000	660	<250	<260	----

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms, L=liter

SPLP = synthetic precipitation leaching procedure

PMC = pollutant mobility criteria

DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial)

NA = not applicable

NE = no established criteria

---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit

Bold value indicates a concentration reported above baseline RSR criteria

[1000] = DEEP-approved fast-track additional polluting substances criteria

[[3000]] = DEEP-approved alternative criteria

[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

[W]Sample below water table

[T]Trivalent chromium

Indicates impacts inferred to be associated primarily with petroleum

Other detected constituents inferred to be associaed with fill

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

Area of Concern (AOC)			Beneath Building						Under Pavement												
Site ID			SB-04	SB-06	SB-28	SB-62		SB-63	MW-05	MW-08	SB-09	SB-11	SB-21	SB-22	SB-24	SB-30		SB-41	SB-43	SB-44	SB-49	SB-58
Date			4/24/2015	4/24/2015	4/29/2015	6/24/2015		6/24/2015	4/28/2015	6/16/2015	4/27/2015	4/27/2015	4/28/2015	4/28/2015	4/28/2015	6/16/2015		6/18/2015	6/18/2015	6/18/2015	6/22/2015	6/23/2015
Sample Depth (feet)			3 - 5	0.7 - 1[W]	2.5 - 4.5	2 - 4	4 - 6[W]	2 - 4	1 - 5	0.5 - 4	0.5 - 4.5	9 - 10	0.5 - 2.5	1 - 4	0.5 - 2.5	0.5 - 4	12.5 - 14.5[D]	0.5 - 2	0.5 - 2.5[D]	0 - 4	6 - 8	11 - 14.5
Observed Fill Thickness			Fill (3')	---	---	---	---	Fill (4')	---	Fill (5')	Fill (2')	Fill (13')	Fill (1')	Fill (1.5')	Fill (5'+)	Fill	Fill (18')	Fill (2')	Fill (3')	Fill (4')	Fill (7.5')	Fill (14.5')
CONSTITUENT	I/C DEC	Max Detect																			
Metals, Total (mg/kg)																					
Arsenic	10	**45.6**	3.4	<0.8	3.7	3.2	----	8.8	1.3	2.2	1.9	4	2.8	2.7	----	0.9	8.7	**18.4**	8.9	8.5	----	----
Cadmium	1000	1.65	<0.35	<0.40	<0.35	0.47	----	1.17	<0.36	<0.39	<0.39	0.55	<0.39	<0.39	----	<0.33	0.94	<0.40	<0.35	<0.45	----	----
Chromium	3900[T]	970	30.1	6.46	62.2	108	25	34.8	10.8	11.1	10.9	14.6	50.2	37.7	----	8.17	31.6	210	19.1	19.6	----	----
Copper	76000	152	51.8	14.8	----	----	----	----	19.8	12	10.6	109	145	----	----	11.2	52.9	52.4	42.7	10.3	----	----
Lead	1000	**3490**	270	103	73.5	220	377	130	2.13	53.3	52.7	139	46.1	286	----	3.01	190	113	321	22.8	----	----
Mercury	610	2.13	0.07	<0.03	0.15	0.75	----	0.56	<0.03	0.09	0.05	0.67	0.05	0.1	----	<0.03	0.25	0.24	0.17	0.06	----	----
Zinc	610000	634	48.9	27.1	----	----	----	----	29.8	35.2	37.7	68	52.4	----	----	12.1	106	39.2	115	57.5	----	----
ETPH (mg/kg)	2500	2100	----	----	<57	----	----	----	<56	<56	<55	400	----	----	<57	<53	<56	----	----	<63	<55	<59
PAHs (ug/kg)																					
2-Methylnaphthalene	[1000000]	1300	----	----	<270	----	----	----	<270	<520	<260	<260	<270	<260	----	<250	<270	<540	<260	<290	<260	----
Acenaphthene	[2500000]	5900	----	----	<270	----	----	----	<270	<520	<260	<260	<270	<260	----	<250	<270	<540	<260	<290	<260	----
Acenaphthylene	2500000	8600	----	----	<270	----	----	----	<270	<520	<260	650	<270	<260	----	<250	<270	<540	1300	<290	400	----
Anthracene	2500000	8400	----	----	<270	----	----	----	<270	<520	<260	1100	<270	510	----	<250	<270	<540	860	<290	<260	----
Benzo(a)anthracene	7800	**20000**	----	----	<270	----	----	----	<270	<520	<260	5200	<270	1600	----	<250	800	<540	2000	<290	260	----
Benzo(a)pyrene	[[3000]]	**17000**	----	----	<270	----	----	----	<270	<520	<260	**5000**	<270	**1600**	----	<250	800	<540	**2000**	<290	300	----
Benzo(b)fluoranthene	7800	**16000**	----	----	<270	----	----	----	<270	<520	310	7000	<270	2400	----	<250	940	<540	2500	<290	400	----
Benzo(ghi)perylene	[78000]	8700	----	----	<270	----	----	----	<270	<520	<260	4000	<270	350	----	<250	510	<540	1300	<290	340	----
Benzo(k)fluoranthene	78000	13000	----	----	<270	----	----	----	<270	<520	<260	1600	<270	810	----	<250	600	<540	800	<290	<260	----
Chrysene	[780000]	20000	----	----	<270	----	----	----	<270	<520	<260	6000	<270	1700	----	<250	900	<540	2200	<290	280	----
Dibenzo(a,h)anthracene	[1000]	**4200**	----	----	<270	----	----	----	<270	<520	<260	<260	<270	<260	----	<250	<270	<540	290	<290	<260	----
Fluoranthene	2500000	34000	----	----	<270	----	----	----	<270	<520	330	9700	<270	4400	----	<250	1000	<540	3600	<290	490	----
Fluorene	2500000	5000	----	----	<270	----	----	----	<270	<520	<260	290	<270	<260	----	<250	<270	<540	290	<290	<260	----
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	----	----	<270	----	----	----	<270	<520	<260	3400	<270	350	----	<250	450	<540	1200	<290	300	----
Naphthalene	2500000	3500	----	----	<270	----	----	----	<4.0	<520	<4.1	280	<4.8	<4.3	----	<250	<270	<230	<5.1	<290	<260	----
Phenanthrene	2500000	34000	----	----	<270	----	----	----	<270	<520	<260	5500	<270	4000	----	<250	1100	<540	2500	<290	300	----
Pyrene	2500000	32000	----	----	<270	----	----	----	<270	<520	350	8800	<270	3300	----	<250	1000	<540	3900	<290	440	----

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[Tri]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

Area of Concern (AOC)			Unpaved Areas Around Facility																		
Site ID			MW-01	MW-02	MW-04			MW-07		MW-09		MW-10	MW-11	MW-14		SB-13	SB-14	SB-14A	SB-16	SB-23	SB-25	SB-29	
Date			4/27/2015	4/27/2015	4/28/2015			6/16/2015		6/16/2015		6/18/2015	6/8/2016	6/8/2016		4/27/2015	4/27/2015	4/28/2015	4/27/2015	4/28/2015	4/29/2015	6/16/2015	
Sample Depth (feet)			6 - 7	11 - 13[W]	2 - 4	5 - 7	8 - 9[W]	0 - 4	12.5 - 15	5 - 8	8 - 10	3 - 5	0 - 1.5	0 - 2	10 - 12	7.5 - 10	0 - 2	5 - 8	10 - 11.5[W]	1 - 4	2 - 5[D]	0 - 4	13 - 15
Observed Fill Thickness			Fill	Fill (13')	Fill	Fill	Fill (9')	Fill	Fill	Fill	Fill (10')	Fill (3.5')	Fill (10.5')	Fill	Fill (20+')	Fill (13')	Fill (5'+)	---	Fill (4')	Fill (3')	Fill (20'+)	Fill	Fill (20')
CONSTITUENT	I/C DEC	Max Detect		Faint odor								Concrete at 3.5'					Concrete at 5'						
Metals, Total (mg/kg)																							
Arsenic	10	**45.6**	6	4.9	----	**16.9**	**45.6**	2.4	6.5	1.2	----	3	1.8	3.1	8.3	3.9	2	3.8	----	4.8	2.3	1.6	3.8
Cadmium	1000	1.65	<0.34	0.6	----	0.48	0.64	<0.38	1.65	<0.36	----	<0.36	<0.35	<0.35	<0.37	<0.41	<0.43	<0.38	----	0.56	<0.34	<0.34	<0.39
Chromium	3900[T]	970	13.5	27.6	----	53.2	838	13.4	45.5	13.2	----	24.4	8.66	14.1	12.8	13.1	16.8	32.2	----	25.3	18.8	12.3	20.6
Copper	76000	152	34	72.3	----	75.3	44.5	12.1	35.4	----	----	14.3	10.6	19.5	17.1	17.1	13.3	9.56	----	----	13.2	14.1	57.9
Lead	1000	**3490**	221	284	----	187	77.7	38.9	93	46.9	75	96.6	37.6	94.5	95.8	74.7	6.89	270	----	250	29.5	40	168
Mercury	610	2.13	1.96	0.24	----	0.46	0.05	0.07	0.54	<0.03	----	0.17	<0.03	0.06	0.14	0.13	<0.03	0.28	----	0.08	<0.03	0.05	0.28
Zinc	610000	634	94.6	206	----	41.9	37.3	36.2	116	----	----	7.04	40.5	71.2	61.6	48.3	19.4	15.1	----	----	34.1	36.9	102
ETPH (mg/kg)	2500	2100	190	89	----	1300	1000	<54	370	----	----	----	160	100	<54	<58	<63	290	<59	----	660	140	84
PAHs (ug/kg)																							
2-Methylnaphthalene	[1000000]	1300	<260	<260	----	800	<320	<250	1000	<250	----	<260	<250	<250	<260	<270	<290	<280	<270	460	860	<240	<250
Acenaphthene	[2500000]	5900	<260	<260	----	<280	390	<250	<280	<250	----	<260	<250	<250	<260	<270	<290	<280	<270	<280	600	<240	<250
Acenaphthylene	2500000	8600	<260	420	----	<280	490	<250	1400	<250	----	<260	330	<250	<260	<270	<290	940	<270	<280	4600	<240	<250
Anthracene	2500000	8400	<260	430	----	<280	1200	<250	850	<250	----	<260	280	<250	<260	<270	<290	830	<270	<280	5100	<240	<250
Benzo(a)anthracene	7800	**20000**	420	1200	----	1300	1500	260	2100	<250	----	<260	2200	340	380	660	<290	3200	<270	<280	**9400**	<240	460
Benzo(a)pyrene	[[3000]]	**17000**	480	**1200**	----	**1400**	980	280	**2000**	<250	----	<260	**2500**	410	420	740	<290	**2600**	<270	<280	**6800**	<240	490
Benzo(b)fluoranthene	7800	**16000**	680	1300	----	1400	910	330	2300	<250	----	<260	2100	460	430	920	<290	2800	<270	320	7100	<240	470
Benzo(ghi)perylene	[78000]	8700	390	880	----	1400	540	330	880	<250	----	<260	1400	300	280	640	<290	870	<270	<280	1500	<240	260
Benzo(k)fluoranthene	78000	13000	<260	480	----	710	380	<250	740	<250	----	<260	1800	350	330	350	<290	890	<270	<280	2200	<240	460
Chrysene	[780000]	20000	640	1300	----	1400	2200	<250	2100	<250	----	<260	**2200**	480	500	910	<290	3600	<270	<280	8600	<240	550
Dibenzo(a,h)anthracene	[1000]	**4200**	<260	300	----	<280	<320	<250	320	<250	----	<260	360	<250	<260	<270	<290	470	<270	<280	730	<240	<250
Fluoranthene	2500000	34000	1000	2400	----	1300	2000	450	3100	270	----	<260	3800	900	780	1600	<290	4000	<270	310	19000	<240	860
Fluorene	2500000	5000	<260	<260	----	<280	530	<250	380	<250	----	<260	<250	<250	<260	<270	<290	<280	<270	<280	4300	<240	<250
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	350	760	----	750	510	310	1000	<250	----	<260	1500	340	300	530	<290	970	<270	<280	1500	<240	280
Naphthalene	2500000	3500	<250	1700	----	520	<320	<250	1500	<250	----	<4.6	<250	<250	<260	<240	<290	480	<4.3	<280	360	<240	<250
Phenanthrene	2500000	34000	750	1400	----	760	9200	260	2600	<250	----	<260	940	270	400	1100	<290	2100	<270	370	27000	<240	670
Pyrene	2500000	32000	910	2300	----	1300	2800	420	4100	270	----	<260	4000	760	790	1500	<290	5800	<270	300	22000	<240	830

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[T]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

Area of Concern (AOC)			Unpaved Areas Around Facility																					
Site ID			SB-31		SB-36		SB-37	SB-38	SB-39	SB-40	SB-45	SB-46		SB-48	SB-50		SB-51	SB-57	SB-64		SB-65		SB-66		SB-67
Date			6/16/2015		6/16/2015		6/16/2015	6/18/2015	6/18/2015	6/18/2015	6/18/2015	6/22/2015		6/22/2015	6/22/2015		6/22/2015	6/23/2015	6/8/2016		6/8/2016		6/8/2016		6/8/2016
Sample Depth (feet)			0 - 4	5 - 8	5 - 8	8 - 10	5 - 10	0.75 - 2.5	0 - 3.5	5 - 9	0.5 - 5	0 - 4	5 - 7.5	8 - 10[W]	6 - 8	10 - 11[W]	5 - 10	0.5 - 5	0 - 2	10 - 12.5	0.5 - 2	5 - 6.5	0 - 2	7 - 8	6.5 - 7.5
Observed Fill Thickness			Fill	Fill (12')	Fill	Fill (10')	Fill (2.5')	Fill (2.5')	---	---	Fill	Fill	Fill (7.5')	Fill (10')	Fill	Fill (11')	Fill (3')	---	Fill	Fill (16.5')	Fill	Fill (6.5')	Fill	Fill (8')	Fill (6')
CONSTITUENT	I/C DEC	Max Detect																						
Metals, Total (mg/kg)																								
Arsenic	10	**45.6**	1.4	7.8	3.2	----	----	3.8	6.9	4	0.9	----	----	**15**	**14.6**	1.1	----	2.3	2.8	**10.1**	0.8	1.3	2.5	2.4	----
Cadmium	1000	1.65	<0.35	0.8	<0.38	----	----	<0.34	0.43	<0.36	<0.35	----	----	----	0.48	----	----	<0.35	<0.37	0.78	<0.33	<0.35	<0.35	<0.36	----
Chromium	3900[T]	970	9.26	26	18.5	----	----	970	42.5	321	7.46	----	----	----	337	17.8	----	15.1	11.3	28.7	5.83	8.51	11.1	14.7	----
Copper	76000	152	11.9	107	----	----	----	76	61.3	34.4	12.4	----	----	----	----	----	----	14.8	14	73.2	4.97	5.67	12.3	27.3	----
Lead	1000	**3490**	29.8	273	114	131	----	180	**1790**	162	17.4	----	----	----	142	1.57	----	12.7	58.8	133	2.88	2.61	49	140	----
Mercury	610	2.13	<0.03	0.22	0.08	----	----	0.05	0.27	0.46	<0.03	----	----	----	0.13	----	----	<0.03	0.24	<0.03	<0.03	<0.03	0.09	0.16	----
Zinc	610000	634	29.3	121	----	----	----	186	634	77.7	27.2	----	----	----	----	----	----	29.1	49.2	132	10.7	12.5	43.7	82.5	----
ETPH (mg/kg)	2500	2100	<55	<57	----	----	<53	----	----	----	240	170	----	<60	380	----	<55	<52	<53	<56	<53	<54	180	<55	110
PAHs (ug/kg)																									
2-Methylnaphthalene	[1000000]	1300	<260	370	<520	670	<240	<250	<2700	<260	<250	<270	<270	<280	770	<280	<250	<500	<250	<260	<250	<240	<240	<250	<250
Acenaphthene	[2500000]	5900	<260	<260	<520	<260	<240	<250	<2700	<260	<250	<270	<270	<280	<550	<280	<250	<500	<250	<260	<250	<240	<240	360	<250
Acenaphthylene	2500000	8600	370	370	2200	1900	<240	<250	<2700	<260	360	<270	<270	<280	760	<280	<250	<500	310	<260	<250	<240	<240	<250	<250
Anthracene	2500000	8400	<260	710	3100	3900	<240	<250	<2700	<260	550	1500	290	<280	<550	<280	<250	<500	<250	<260	<250	<240	450	660	<250
Benzo(a)anthracene	7800	**20000**	1600	1600	7600	**10000**	<240	<250	<2700	440	3400	3800	540	<280	580	<280	<250	<500	660	590	<250	<240	970	1100	<250
Benzo(a)pyrene	[[3000]]	**17000**	**1700**	**1300**	**7200**	**7900**	<240	<250	<2700	440	**4100**	**3000**	480	<280	**1100**	<280	<250	<500	840	640	<250	<240	830	1000	<250
Benzo(b)fluoranthene	7800	**16000**	2100	1700	**8100**	**11000**	<240	<250	<2700	590	4900	3200	630	<280	1100	<280	<250	<500	690	590	<250	<240	700	900	<250
Benzo(ghi)perylene	[78000]	8700	1000	660	3800	3600	<240	<250	<2700	330	3200	1400	350	<280	1700	<280	<250	<500	560	400	<250	<240	380	540	<250
Benzo(k)fluoranthene	78000	13000	790	560	6200	3600	<240	<250	<2700	<260	1500	2700	<270	<280	<550	<280	<250	<500	610	500	<250	<240	610	770	<250
Chrysene	[780000]	20000	1400	1500	9000	9900	<240	<250	<2700	430	3700	4000	430	<280	690	<280	<250	<500	750	720	<250	<240	920	1100	<250
Dibenzo(a,h)anthracene	[1000]	**4200**	<260	<260	850	<260	<240	<250	<2700	<260	660	370	<270	<280	<550	<280	<250	<500	<250	<260	<250	<240	<240	<250	<250
Fluoranthene	2500000	34000	2300	3200	22000	20000	<240	<250	<2700	840	5000	8100	1200	<280	850	<280	<250	<500	1200	1200	<250	<240	2300	2700	<250
Fluorene	2500000	5000	<260	430	2000	2100	<240	<250	<2700	<260	<250	530	<270	<280	<550	<280	<250	<500	<250	<260	<250	<240	<240	340	<250
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	1100	770	4000	4500	<240	<250	<2700	360	2600	1600	390	<280	830	<280	<250	<500	600	450	<250	<240	470	630	<250
Naphthalene	2500000	3500	<260	780	<520	1800	<5.0	<5.4	960	<5.0	<250	<270	<270	<280	<330	<280	<250	<500	<250	<260	<250	<240	<240	<250	<4.7
Phenanthrene	2500000	34000	450	2900	22000	19000	<240	<250	<2700	460	2200	6000	950	<280	610	<280	<250	<500	570	610	<250	<240	1900	2500	<250
Pyrene	2500000	32000	2300	2900	18000	17000	<240	<250	<2700	720	4400	7100	940	<280	1600	<280	<250	<500	1200	1200	<250	<240	2000	2200	<250

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms

I/C DEC = industrial/commercial direct exposure criteria

[Tri]Criteria for trivalent chromium

[Hex]Criteria for hexavalent chromium

---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit

Bold value indicates a concentration reported above the baseline I/C DEC

[1000] = DEEP-approved fast-track additional polluting substances criteria

[[3000]] = DEEP-approved alternative criteria

[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

			Unpaved Areas Around Facility																	
Area of Concern (AOC)																				
Site ID			SS-101	SS-102	SS-103	SS-104	SS-105	SS-106	SS-107	SS-108	SS-109	SS-110	SS-111	SS-112	SS-113	SS-114	SS-115	SS-116	SS-117	SS-118	SS-119	SS-121
Date			7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016
Sample Depth (feet)			0 - 1.5	0 - 1.5	0 - 1.5	1 - 1.5	0 - 1.5	0 - 1.5	0 - 1	0 - 1.5	0 - 0	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1D	0 - 1
Observed Fill Thickness			---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CONSTITUENT	I/C DEC	Max Detect																				
Metals, Total (mg/kg)																						
Arsenic	10	**45.6**	1.74	3.29	2.43	2.16	3.25	3.67	2.63	2.62	1.54	1.64	4.61	4.59	4.87	3	3.17	7.33	4.5	4.1	5.15	8.07
Cadmium	1000	1.65	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Chromium	3900[T]	970	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Copper	76000	152	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Lead	1000	**3490**	57.9	97.3	**3490**	118	54.2	24.7	38.8	81.4	13.3	49.6	18.8	12.5	15.6	6.03	83.3	185	358	111	256	400
Mercury	610	2.13	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Zinc	610000	634	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
ETPH (mg/kg)	2500	2100	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
PAHs (ug/kg)																						
2-Methylnaphthalene	[1000000]	1300	<240	<250	<250	<240	<270	<250	<250	1300	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	380	<270
Acenaphthene	[2500000]	5900	<240	<250	<250	<240	<270	<250	<250	5900	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	1400	<270
Acenaphthylene	2500000	8600	<240	<250	<250	<240	<270	<250	<250	2000	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	340	<270
Anthracene	2500000	8400	<240	<250	<250	<240	<270	<250	460	8400	<240	<240	<240	<230	<240	<260	<260	<240	290	<270	2900	<270
Benzo(a)anthracene	7800	**20000**	<240	<250	<250	<240	<270	<250	2000	**20000**	<240	470	<240	<230	<240	<260	460	600	860	1000	**8200**	960
Benzo(a)pyrene	[[3000]]	**17000**	<240	<250	<250	<240	<270	<250	**1700**	**17000**	840	660	<240	<230	<240	<260	540	580	800	**1200**	**7100**	1000
Benzo(b)fluoranthene	7800	**16000**	<240	290	<250	<240	<270	<250	1800	**16000**	490	700	<240	<230	<240	<260	600	570	800	1400	7700	1100
Benzo(ghi)perylene	[78000]	8700	<240	<250	<250	<240	<270	<250	1000	8700	810	760	300	<230	<240	<260	300	330	370	1000	3300	600
Benzo(k)fluoranthene	78000	13000	<240	<250	<250	<240	<270	<250	1500	13000	400	530	<240	<230	<240	<260	450	560	720	1300	4500	910
Chrysene	[780000]	20000	<240	290	<250	<240	<270	<250	2100	19000	<240	560	<240	<230	<240	<260	650	630	900	1400	7800	1100
Dibenzo(a,h)anthracene	[1000]	**4200**	<240	<250	<250	<240	<270	<250	<250	**4200**	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	**1500**	<270
Fluoranthene	2500000	34000	<240	440	<250	<240	<270	270	4100	34000	290	730	<240	<230	<240	<260	1100	1100	1900	2500	14000	1900
Fluorene	2500000	5000	<240	<250	<250	<240	<270	<250	<250	5000	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	1100	<270
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	<240	<250	<250	<240	<270	<250	1100	**11000**	1000	850	290	<230	<240	<260	330	360	460	1100	4400	710
Naphthalene	2500000	3500	<240	<250	<250	<240	<270	<250	<250	3500	<240	<240	<240	<230	<240	<260	<260	<240	<240	<270	1200	<270
Phenanthrene	2500000	34000	<240	<250	<250	<240	<270	<250	2500	34000	<240	<240	<240	<230	<240	<260	570	600	1300	1200	11000	1100
Pyrene	2500000	32000	<240	400	<250	<240	<270	250	3400	28000	260	730	<240	<230	<240	<260	960	1000	1500	2100	12000	1600

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[Tri]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

Area of Concern (AOC)			Hillside																		
Site ID			SB-32	SB-33	SB-34	SB-35	SS-120	SS-122	SS-123	SS-124	SS-124	SS-125	SS-126	SS-127	SS-128	SS-129	SS-130	SS-130	SS-131	SS-132	SS-132	SS-133
Date			6/16/2015	6/16/2015	6/16/2015	6/16/2015	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/21/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016
Sample Depth (feet)			0 - 0.5	0 - 0.5	0 - 0.5	0 - 0.5	0 - 1.5	0 - 1	0 - 1	0 - 1	2 - 4	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	2 - 4	0 - 1	0 - 1D	2 - 4	0 - 1	0 - 1
Observed Fill Thickness			Fill	Fill	Fill	Fill	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
CONSTITUENT	I/C DEC	Max Detect																				
Metals, Total (mg/kg)																						
Arsenic	10	**45.6**	6.3	**28.3**	6.8	**10.1**	6.61	5.55	7.98	6.94	3.5	5.34	8.48	**14.1**	3.95	3.29	2.77	6.16	6.42	6.97	2.57	8.11
Cadmium	1000	1.65	<0.42	<0.54	<0.44	<0.45	----	<0.35	<0.36	<0.35	<0.36	<0.39	<0.34	<0.40	<0.38	1.05	<0.37	<0.38	<0.45	<0.39	<0.37	<0.36
Chromium	3900[T]	970	23.5	48.8	21.6	22.9	----	----	----	----	----	----	33.4	38.2	10.2	15.4	17.2	21.8	23.9	24.5	16.3	24.1
Copper	76000	152	10.6	23.9	10.2	15.2	----	29.3	22	35.3	24.4	150	20.6	29.7	13.7	40.7	8.64	11.6	20.4	23.7	6.41	33.3
Lead	1000	**3490**	67.8	245	54	68.7	94.5	134	287	82	36.4	325	607	273	64.6	71.3	8.83	65.3	156	88.7	10.9	140
Mercury	610	2.13	0.11	0.43	1.09	0.11	----	0.39	0.13	0.2	0.06	2.13	0.2	0.28	0.27	0.4	<0.03	0.17	0.38	0.49	0.03	0.59
Zinc	610000	634	26.3	33.8	26	27.9	----	56.1	75.3	45.9	40	120	131	46.2	35.4	170	29.1	29.9	51.4	43.2	37.4	49.5
ETPH (mg/kg)	2500	2100	----	----	----	----	----	120	<52	490	<53	73	<51	360	<110	<110	<52	110	660	<110	<53	120
PAHs (ug/kg)																						
2-Methylnaphthalene	[1000000]	1300	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	<300	<260	<250	<250
Acenaphthene	[2500000]	5900	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	<300	<260	340	620
Acenaphthylene	2500000	8600	----	----	----	----	<240	<240	<250	<250	<240	<270	300	<270	<250	<260	<250	<250	730	<260	<250	<250
Anthracene	2500000	8400	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	380	<260	300	920
Benzo(a)anthracene	7800	**20000**	----	----	----	----	<240	730	<250	590	<240	470	890	600	380	880	<250	<250	890	760	830	2800
Benzo(a)pyrene	[[3000]]	**17000**	----	----	----	----	250	720	<250	600	<240	490	920	630	350	850	<250	<250	990	760	870	**2400**
Benzo(b)fluoranthene	7800	**16000**	----	----	----	----	310	840	<250	710	<240	690	820	810	390	1200	<250	290	1400	760	770	2800
Benzo(ghi)perylene	[78000]	8700	----	----	----	----	<240	450	<250	440	<240	310	580	550	<250	500	<250	<250	780	550	500	1200
Benzo(k)fluoranthene	78000	13000	----	----	----	----	250	590	<250	580	<240	510	770	570	340	610	<250	<250	980	570	750	2200
Chrysene	[780000]	20000	----	----	----	----	300	860	<250	760	<240	640	1200	870	460	1100	<250	290	1500	900	890	3500
Dibenzo(a,h)anthracene	[1000]	**4200**	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	<300	<260	<250	<250
Fluoranthene	2500000	34000	----	----	----	----	470	1400	<250	1300	<240	1100	2500	1400	810	2200	<250	450	2800	2100	2300	7400
Fluorene	2500000	5000	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	<300	<260	270	420
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	----	----	----	----	<240	500	<250	470	<240	370	690	620	280	520	<250	280	880	650	600	1500
Naphthalene	2500000	3500	----	----	----	----	<240	<240	<250	<250	<240	<270	<240	<270	<250	<260	<250	<250	<300	<260	<250	<250
Phenanthrene	2500000	34000	----	----	----	----	300	910	<250	1000	<240	690	1500	700	460	1400	<250	<250	1300	1100	2000	5500
Pyrene	2500000	32000	----	----	----	----	420	1200	<250	1100	<240	880	2400	1300	720	1800	<250	420	2700	2000	1900	6400

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[Tri]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

Area of Concern (AOC)			Hillside								Test Pits at SS-108, SS-119, and SB-36								
Site ID			SS-133	SS-134	SS-135	SS-136	SS-137	SS-138	SS-139	SS-140	TP-108A		TP-108B		TP-108C		TP-108D		TP-108E
Date			7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	7/22/2016	9/15/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016
Sample Depth (feet)			2 - 4	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0 - 1	0.5 - 1.5	1.5 - 2.5	0.5 - 1.5	1.5 - 2.5	0.5 - 1.5	1.5 - 2.5	0.5 - 1.5	1.5 - 2.5	4
Observed Fill Thickness			---	---	---	---	---	---	---	---	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
CONSTITUENT	I/C DEC	Max Detect																	
Metals, Total (mg/kg)																			
Arsenic	10	**45.6**	**13.9**	9.37	8.73	**12.2**	9.12	2.88	4.97	2.79	---	---	---	---	---	---	---	---	---
Cadmium	1000	1.65	<0.41	<0.36	<0.37	<0.35	<0.40	0.34	<0.36	<0.34	---	---	---	---	---	---	---	---	---
Chromium	3900[T]	970	26.2	21.2	38	29.6	26.1	24.4	62.9	14.8	---	---	---	---	---	---	---	---	---
Copper	76000	152	20.2	41.5	19.2	20.1	18.9	91.9	152	14.5	---	---	---	---	---	---	---	---	---
Lead	1000	**3490**	138	173	134	132	123	98.8	549	40.1	---	---	---	---	---	---	---	---	---
Mercury	610	2.13	0.37	0.72	0.14	0.29	0.24	0.92	0.21	0.05	---	---	---	---	---	---	---	---	---
Zinc	610000	634	26.1	71	32.3	35.8	32.6	83.6	175	93.8	---	---	---	---	---	---	---	---	---
ETPH (mg/kg)	2500	2100	510	250	140	170	230	220	2100	<57	---	---	---	---	---	---	---	---	---
PAHs (ug/kg)																			
2-Methylnaphthalene	[1000000]	1300	<260	<250	<250	<260	<260	<250	260	<260	<240	<4800	<240	<260	<240	<250	<240	<2400	<240
Acenaphthene	[2500000]	5900	<260	750	<250	<260	<260	<250	470	<260	<240	<4800	<240	<260	<240	<250	<240	<2400	<240
Acenaphthylene	2500000	8600	<260	320	<250	<260	<260	<250	<250	<260	500	8600	650	<260	860	490	430	6000	1400
Anthracene	2500000	8400	<260	1700	<250	<260	<260	<250	780	<260	240	5100	490	<260	540	290	280	2700	950
Benzo(a)anthracene	7800	**20000**	<260	4300	550	360	550	310	2000	<260	950	**16000**	2000	<260	1700	990	1400	**9800**	3600
Benzo(a)pyrene	[[3000]]	**17000**	290	**3900**	580	440	630	330	**1700**	330	**1100**	**16000**	**2100**	<260	**1800**	1000	**1600**	**9600**	**3600**
Benzo(b)fluoranthene	7800	**16000**	310	4200	710	540	850	340	1800	320	870	**12000**	1700	<260	1600	960	1300	6900	3400
Benzo(ghi)perylene	[78000]	8700	<260	2400	440	340	490	290	910	<260	680	8700	1100	<260	1000	620	850	4900	1700
Benzo(k)fluoranthene	78000	13000	<260	2900	360	470	730	290	1400	270	810	13000	1400	<260	1400	900	1100	7500	2500
Chrysene	[780000]	20000	<260	4600	790	610	980	350	2400	330	1100	20000	2200	<260	1900	1300	1500	12000	4100
Dibenzo(a,h)anthracene	[1000]	**4200**	<260	640	<250	<260	<260	<250	280	<260	<240	<4800	300	<260	280	<250	<240	<2400	380
Fluoranthene	2500000	34000	270	10000	1200	910	1300	840	6200	610	1500	27000	3600	<260	3300	1900	2300	14000	5400
Fluorene	2500000	5000	<260	720	<250	<260	<260	<250	640	<260	<240	<4800	<240	<260	<240	<250	<240	<2400	<240
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	330	2900	490	380	550	340	1100	290	800	9400	1300	<260	1200	610	1000	4600	1900
Naphthalene	2500000	3500	<260	400	<250	<260	<260	<250	680	<260	<240	<4800	<240	<260	<240	<250	<240	<2400	<240
Phenanthrene	2500000	34000	<260	6600	690	450	840	460	4700	<260	640	22000	2000	<260	1900	910	870	9200	3000
Pyrene	2500000	32000	<260	8800	1100	850	1300	720	5200	530	1700	32000	3700	<260	3400	2000	2300	18000	6100

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[T]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 6e
Summary of Constituents Dected in Soil
AOCs 105 (Fill)
Former Anocoil Corporation
Vernon, Connecticut

	Area of Concern (AOC)		Test Pits at SS-108, SS-119, and SB-36										
	Site ID		TP-119A		TP-119B		TP-119C		TP-119D		TP-119E	TP-136	
	Date		9/15/2016		9/15/2016		9/15/2016		9/15/2016		9/15/2016	9/15/2016	
	Sample Depth (feet)		1 - 3	3 - 4	1 - 3	3 - 4	1 - 3	3 - 4	1 - 3	3 - 4[D]	4	0.5 - 4	7
	Observed Fill Thickness		Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill	Fill
CONSTITUENT	I/C DEC	Max Detect											
Metals, Total (mg/kg)													
Arsenic	10	**45.6**	---	---	---	---	---	---	---	---	---	---	---
Cadmium	1000	1.65	---	---	---	---	---	---	---	---	---	---	---
Chromium	3900[T]	970	---	---	---	---	---	---	---	---	---	---	---
Copper	76000	152	---	---	---	---	---	---	---	---	---	---	---
Lead	1000	**3490**	---	---	---	---	---	---	---	---	---	---	---
Mercury	610	2.13	---	---	---	---	---	---	---	---	---	---	---
Zinc	610000	634	---	---	---	---	---	---	---	---	---	---	---
ETPH (mg/kg)	2500	2100	---	---	---	---	---	---	---	---	---	---	---
PAHs (ug/kg)													
2-Methylnaphthalene	[1000000]	1300	<260	270	<270	<260	<270	420	<260	280	700	<250	<250
Acenaphthene	[2500000]	5900	<260	<260	<270	350	<270	820	<260	650	770	440	<250
Acenaphthylene	2500000	8600	340	420	450	300	320	580	520	430	300	<250	<250
Anthracene	2500000	8400	270	520	450	800	400	1600	420	1500	1100	910	<250
Benzo(a)anthracene	7800	**20000**	900	1400	1300	1800	1400	3800	1200	3500	2000	2100	<250
Benzo(a)pyrene	[[3000]]	**17000**	1000	**1400**	**1300**	**1800**	**1400**	**3500**	**1300**	**3300**	**1900**	**1700**	<250
Benzo(b)fluoranthene	7800	**16000**	850	1200	1400	1700	1400	3500	1100	3700	1700	1400	<250
Benzo(ghi)perylene	[78000]	8700	610	960	950	860	880	1900	760	1900	1100	930	<250
Benzo(k)fluoranthene	78000	13000	920	1100	1100	1400	1200	2600	990	1800	1600	1600	<250
Chrysene	[780000]	20000	1000	1500	1400	1900	1500	3700	1300	3600	2000	2100	<250
Dibenzo(a,h)anthracene	[1000]	**4200**	<260	<260	<270	<260	<270	540	<260	350	340	320	<250
Fluoranthene	2500000	34000	1800	2600	2000	4200	2300	7600	2200	6900	5100	4100	<250
Fluorene	2500000	5000	<260	330	<270	420	<270	1000	<260	750	1000	420	<250
Indeno(1,2,3-CD)pyrene	[7800]	**11000**	680	1200	1100	1100	1000	2500	990	2200	1400	1100	<250
Naphthalene	2500000	3500	<260	430	<270	320	<270	1000	<260	750	3500	360	<250
Phenanthrene	2500000	34000	920	1800	1400	3000	1400	5900	1300	5800	4900	3600	<250
Pyrene	2500000	32000	1600	2300	1800	3400	2100	6500	2000	5700	4300	3500	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
I/C DEC = industrial/commercial direct exposure criteria
[Tri]Criteria for trivalent chromium
[Hex]Criteria for hexavalent chromium
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above the baseline I/C DEC
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 7a
Summary of Constituents Detected in Groundwater North of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-01			MW-02						MW-11					MW-15	
Sample Date				5/4/2015	12/15/2016	3/31/2017	5/4/2015	9/19/2016	12/15/2016	1/13/2017[D]	4/3/2017	6/22/2017[D]	6/16/2016	9/19/2016	12/15/2016	1/13/2017	4/3/2017	12/15/2016	3/31/2017
Approximate Sample Depth (feet)				19.5	20	20	15.5	17	17.5	15.5	15.5	16	12.5	12	13	11	11.5	0	0
CONSTITUENT	Res VC	I/C VC	SWPC																
Field Parameters																			
pH (su)	NA	NA	NA	6.83	6.43	6.34	6.5	6.12	6.7	6.07	6.05	6.07	6.19	5.76	5.9	5.76	5.94	Dry	Dry
Specific Conductance (uS/cm)	NA	NA	NA	909	802	962	1643	1047	600	788	1391	1459	1454	2202	1388	1215	994	Dry	Dry
Turbidity (ntu)	NA	NA	NA	3.84	5.82	4.94	6.14	6.01	1.72	0.77	2.03	2.31	14.61	2.11	0.76	3.53	2.32	Dry	Dry
Metals (mg/L)																			
Aluminum	NA	NA	[0.87]	0.183	<0.010	0.083	0.022	----	<0.010	----	----	----	----	----	0.03	----	----	Dry	Dry
Arsenic	NA	NA	0.004	<0.004	<0.004	<0.004	<0.004	----	<0.004	----	----	----	----	----	<0.004	----	----	Dry	Dry
Barium	NA	NA	[2.2]	0.229	----	----	0.383	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Cadmium	NA	NA	0.006	<0.001	----	----	<0.001	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Chromium	NA	NA	0.11	<0.001	<0.001	<0.001	<0.001	----	<0.001	----	----	----	----	----	<0.001	----	----	Dry	Dry
Copper	NA	NA	0.048	<0.005	----	----	<0.005	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Lead	NA	NA	0.013	<0.002	<0.002	<0.002	0.003	----	<0.002	----	----	----	----	----	<0.002	----	----	Dry	Dry
Mercury	NA	NA	0.0004	<0.0002	----	----	<0.0002	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Nickel	NA	NA	0.88	0.001	----	----	0.003	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Selenium	NA	NA	0.05	<0.010	----	----	<0.010	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Silver	NA	NA	0.012	<0.001	----	----	<0.001	----	----	----	----	----	----	----	----	----	----	Dry	Dry
Zinc	NA	NA	0.123	0.01	----	----	0.059	----	----	----	----	----	----	----	----	----	----	Dry	Dry
ETPH (mg/L)	NA	NA	[0.25]	<0.072	<0.076	<0.070	<0.074	<0.070	<0.070	----	<0.070	<0.071	<0.070	<0.070	<0.070	----	<0.070	Dry	Dry
VOCs (ug/L)																			
Chloromethane	[130]	[1800]	[10000]	<1.0	<1.0	<1.0	<1.0	<1.0	----	1.1	<1.0	<1.0	2.3	<1.0	----	<1.0	<1.0	Dry	Dry
Toluene	23500	50000	4000000	1.5	<1.0	<1.0	<1.0	<1.0	----	<1.0	<1.0	<1.0	<1.0	<1.0	----	<1.0	<1.0	Dry	Dry
SVOCs (ug/L)																			
Benzo(a)anthracene	NA	NA	0.3	<0.02	<0.05	<0.05	0.04	<0.05	<0.05	----	<0.05	<0.05	0.08	<0.05	<0.05	----	<0.05	Dry	Dry
Benzo(a)pyrene	NA	NA	0.3	<0.02	<0.05	<0.05	<0.02	<0.05	<0.05	----	<0.05	<0.05	0.07	<0.05	<0.05	----	<0.05	Dry	Dry
Benzo(b)fluoranthene	NA	NA	0.3	<0.02	<0.05	<0.05	<0.02	<0.05	<0.05	----	<0.05	<0.05	0.06	<0.05	<0.05	----	<0.05	Dry	Dry
Benzo(k)fluoranthene	NA	NA	0.3	<0.02	<0.05	<0.05	<0.02	<0.05	<0.05	----	<0.05	<0.05	0.07	<0.05	<0.05	----	<0.05	Dry	Dry
Chrysene	NA	NA	[0.54]	<0.02	<0.05	<0.05	0.03	<0.05	<0.05	----	<0.05	<0.05	0.07	<0.05	<0.05	----	<0.05	Dry	Dry
Fluoranthene	NA	NA	3700	<0.10	<0.05	<0.05	0.1	<0.05	<0.05	----	<0.05	<0.05	0.1	<0.05	<0.05	----	<0.05	Dry	Dry
Naphthalene	NA	NA	[210]	<0.10	<0.11	<0.10	0.22	<0.10	<0.10	----	<0.10	<0.10	<0.12	<0.10	<0.10	----	0.18	Dry	Dry
Phenanthrene	NA	NA	[14]	<0.07	<0.05	<0.05	0.16	<0.05	<0.05	----	<0.05	<0.05	0.06	<0.05	<0.05	----	<0.05	Dry	Dry
Pyrene	NA	NA	110000	<0.10	<0.05	<0.05	<0.10	<0.05	<0.05	----	<0.05	<0.05	0.11	<0.05	<0.05	----	<0.05	Dry	Dry

Notes:
Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected

---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
[Value] = DEEP-approved additional polluting substances
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 7b
Summary of Constituents Detected in Groundwater South of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-06 *(Background)*	MW-10 *(Background)*	MW-03				
Sample Date				5/4/2015	6/26/2015	5/4/2015	6/17/2016	9/19/2016	12/15/2016	4/3/2017
Approximate Sample Depth (feet)				10.5	16	8.5	10.3	10	10	9.5
CONSTITUENT	Res VC	I/C VC	SWPC							
Field Parameters										
pH (su)	NA	NA	NA	6.63	6.93	7.68	6.93	7.18	7.36	6.85
Specific Conductance (uS/cm)	NA	NA	NA	1316	1865	979	746	876	712	341
Turbidity (ntu)	NA	NA	NA	2.01	6.72	15.84	22.18	57.33	76.21	45.4
Metals (mg/L)							F^{10}	F^{10}	F^{10}	F^{10}
Aluminum	NA	NA	[0.87]	0.258	0.835	**1.18**	0.52	**3.01**	**5.98**	**1.46**
Arsenic	NA	NA	0.004	<0.004	<0.004	**0.007**	**0.015**	**0.026**	**0.025**	**0.009**
Barium	NA	NA	[2.2]	0.311	0.102	0.069	----	----	----	----
Cadmium	NA	NA	0.006	<0.001	<0.001	<0.001	----	----	----	----
Chromium	NA	NA	0.11	<0.001	0.007	0.029	0.019	0.077	**0.145**	0.051
Copper	NA	NA	0.048	<0.005	0.015	0.013	----	----	----	----
Lead	NA	NA	0.013	<0.002	0.003	0.006	0.004	**0.017**	**0.037**	0.013
Mercury	NA	NA	0.0004	<0.0002	<0.0002	<0.0002	----	----	----	----
Nickel	NA	NA	0.88	0.005	0.007	0.005	----	----	----	----
Selenium	NA	NA	0.05	<0.010	<0.010	<0.010	----	----	----	----
Silver	NA	NA	0.012	<0.001	<0.001	<0.001	----	----	----	----
Zinc	NA	NA	0.123	0.01	0.011	0.014	----	----	----	----
ETPH (mg/L)	NA	NA	[0.250]	<0.070	<0.070	**1.2**	**0.63**	**0.72**	----	**1.1**
VOCs (ug/L)										
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	<1.0	<1.0	<2.0	----	----	----	----
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	<1.0	<1.0	<2.0	----	----	----	----
Benzene	215	530	710	<0.70	<0.70	<1	----	----	----	----
Carbon Disulfide	[2100]	[5200]	[150]	<5.0	<5.0	<10	----	----	----	----
Chloromethane	[130]	[1800]	[10000]	<1.0	<1.0	<2.0	----	----	----	----
Ethylbenzene	50000	50000	580000	<1.0	<1.0	<2.0	----	----	----	----
Isopropylbenzene	[900]	[2200]	[210]	<1.0	<1.0	<2.0	----	----	----	----
n-Propylbenzene	[1200]	[2900]	[10000]	<1.0	<1.0	<2.0	----	----	----	----
p-Isopropyltoluene	[870]	[2100]	[200]	<1.0	<1.0	<2.0	----	----	----	----
Styrene	580	2065	[320]	<1.0	<1.0	<2.0	----	----	----	----
Toluene	23500	50000	4000000	<1.0	<1.0	<2.0	----	----	----	----
Xylene (total)	21300	50000	[270]	<1.0	<1.0	<2.0	----	----	----	----
m,p-Xylenes	NA	NA	NA	<1.0	<1.0	<2.0	----	----	----	----
o-Xylene	NA	NA	NA	<1.0	<1.0	<2.0	----	----	----	----
PAHs (ug/L)										
2-Methylnaphthalene	NA	NA	[62]	<0.10	<1.0	0.11	<0.06	<0.06	<0.05	<0.05
Acenaphthene	NA	NA	[150]	<0.10	<0.05	<0.10	<0.06	<0.06	0.14	<0.05
Acenaphthylene	NA	NA	0.3	<0.10	<0.05	<0.10	0.2	**0.35**	**0.4**	0.26
Anthracene	NA	NA	1100000	<0.10	<0.02	0.24	0.14	0.12	0.2	0.12
Benzo(a)anthracene	NA	NA	0.3	<0.02	0.02	**0.52**	<0.06	0.16	**0.39**	**0.36**
Benzo(a)pyrene	NA	NA	0.3	<0.02	<0.02	**0.46**	0.07	0.23	**0.34**	**0.38**
Benzo(b)fluoranthene	NA	NA	0.3	<0.02	<0.02	**0.51**	<0.06	0.11	0.2	0.22
Benzo(ghi)perylene	NA	NA	[150]	<0.10	<0.50	0.3	0.06	0.16	0.16	0.24
Benzo(k)fluoranthene	NA	NA	0.3	<0.02	<0.02	0.15	<0.06	0.18	0.26	**0.31**
Chrysene	NA	NA	[0.54]	<0.02	<0.02	0.52	<0.06	0.18	0.34	0.39
Dibenzo(a,h)anthracene	NA	NA	[0.30]	<0.01	<0.01	<0.01	<0.01	0.05	0.06	0.07
Fluoranthene	NA	NA	3700	<0.10	<0.04	0.44	<0.06	0.1	0.38	0.28
Fluorene	NA	NA	140000	<0.10	<0.10	0.18	<0.06	<0.06	0.17	<0.05
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	<0.02	<0.02	0.22	<0.06	0.12	0.15	0.23
Naphthalene	NA	NA	[210]	<0.10	<0.10	0.25	<0.11	<0.12	<0.10	<0.11
Phenanthrene	NA	NA	[14]	0.19	<0.05	0.3	<0.06	0.06	0.17	0.07
Pyrene	NA	NA	110000	<0.10	<0.02	1.1	0.1	0.38	1.3	1
Other SVOCs (ug/L)	NA	NA	Varies	----	ND	----	----	----	----	----

Notes:
Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
^{D}Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
F_{10} Sample field filtered using a 10 micron filter
*Turbidity for metals/turbidity for all other constituents

Table 7b
Summary of Constituents Detected in Groundwater South of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-04					MW-05				
Sample Date				5/4/2015	6/17/2016	9/19/2016	12/15/2016	3/31/2017	5/4/2015[D]	6/17/2016	9/19/2016	12/15/2016[D]	3/31/2017
Approximate Sample Depth (feet)				10.3	10	10.8	10.5	9	3	5	4	4	4
CONSTITUENT	Res VC	I/C VC	SWPC										
Field Parameters													
pH (su)	NA	NA	NA	6.72	6.27	6.1	6.18	6.66	6.36	5.4	5.38	5.39	5.87
Specific Conductance (uS/cm)	NA	NA	NA	615	901	1142	993	613	2162	2474	2561	1964	1750
Turbidity (ntu)	NA	NA	NA	22.8	31.39	26.7	207.2	8.92	13.06	3.57	168.4	0.77	7.35
Metals (mg/L)				F^{10}	F^{10}	F^{10}	F^{10}		F^{10}		F^{10}		
Aluminum	NA	NA	[0.87]	**0.892**	0.545	0.618	0.478	0.666	**3.94**	**29.4**	**52.6**	**36.9**	**13.8**
Arsenic	NA	NA	0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004
Barium	NA	NA	[2.2]	0.023	----	----	----	----	0.245	----	----	----	----
Cadmium	NA	NA	0.006	<0.001	----	----	----	----	<0.001	----	----	----	----
Chromium	NA	NA	0.11	0.004	0.002	0.002	0.002	0.003	0.002	0.001	<0.001	0.003	0.002
Copper	NA	NA	0.048	<0.005	----	----	----	----	<0.005	----	----	----	----
Lead	NA	NA	0.013	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.004	<0.002	<0.002	<0.002
Mercury	NA	NA	0.0004	<0.0002	----	----	----	----	<0.0002	----	----	----	----
Nickel	NA	NA	0.88	0.002	----	----	----	----	0.005	----	----	----	----
Selenium	NA	NA	0.05	<0.010	----	----	----	----	<0.010	----	----	----	----
Silver	NA	NA	0.012	<0.001	----	----	----	----	<0.001	----	----	----	----
Zinc	NA	NA	0.123	0.003	----	----	----	----	0.006	----	----	----	----
ETPH (mg/L)	NA	NA	[0.250]	<0.070	<0.070	<0.072	----	<0.070	<0.070	<0.070	<0.070	<0.074	<0.070
VOCs (ug/L)													
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	<1.0	----	----	----	----	<1.0	----	----	----	----
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	<1.0	----	----	----	----	<1.0	----	----	----	----
Benzene	215	530	710	<0.70	----	----	----	----	<0.70	----	----	----	----
Carbon Disulfide	[2100]	[5200]	[150]	<5.0	----	----	----	----	<5.0	----	----	----	----
Chloromethane	[130]	[1800]	[10000]	<1.0	----	----	----	----	<1.0	----	----	----	----
Ethylbenzene	50000	50000	580000	<1.0	----	----	----	----	<1.0	----	----	----	----
Isopropylbenzene	[900]	[2200]	[210]	<1.0	----	----	----	----	<1.0	----	----	----	----
n-Propylbenzene	[1200]	[2900]	[10000]	<1.0	----	----	----	----	<1.0	----	----	----	----
p-Isopropyltoluene	[870]	[2100]	[200]	<1.0	----	----	----	----	<1.0	----	----	----	----
Styrene	580	2065	[320]	<1.0	----	----	----	----	<1.0	----	----	----	----
Toluene	23500	50000	4000000	<1.0	----	----	----	----	<1.0	----	----	----	----
Xylene (total)	21300	50000	[270]	<1.0	----	----	----	----	<1.0	----	----	----	----
m,p-Xylenes	NA	NA	NA	<1.0	----	----	----	----	<1.0	----	----	----	----
o-Xylene	NA	NA	NA	<1.0	----	----	----	----	<1.0	----	----	----	----
PAHs (ug/L)													
2-Methylnaphthalene	NA	NA	[62]	0.22	<0.06	<0.05	<0.06	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Acenaphthene	NA	NA	[150]	0.6	<0.06	0.07	<0.06	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Acenaphthylene	NA	NA	0.3	<0.10	<0.06	0.05	<0.06	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Anthracene	NA	NA	1100000	0.43	0.08	0.12	0.07	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Benzo(a)anthracene	NA	NA	0.3	0.18	0.09	0.18	0.11	<0.05	<0.04	<0.05	<0.06	<0.05	0.06
Benzo(a)pyrene	NA	NA	0.3	0.11	<0.06	0.14	0.07	<0.05	<0.02	<0.05	<0.06	<0.05	<0.05
Benzo(b)fluoranthene	NA	NA	0.3	0.15	<0.06	0.11	0.06	<0.05	<0.02	<0.05	<0.06	<0.05	<0.05
Benzo(ghi)perylene	NA	NA	[150]	<0.10	<0.06	0.07	<0.06	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Benzo(k)fluoranthene	NA	NA	0.3	0.05	<0.06	0.12	0.06	<0.05	<0.02	<0.05	<0.06	<0.05	<0.05
Chrysene	NA	NA	[0.54]	0.2	0.09	0.22	0.09	<0.05	<0.02	<0.05	<0.06	<0.05	<0.05
Dibenzo(a,h)anthracene	NA	NA	[0.30]	<0.01	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Fluoranthene	NA	NA	3700	0.5	0.2	0.35	0.29	0.06	<0.10	0.07	<0.06	<0.05	0.1
Fluorene	NA	NA	140000	0.51	0.07	0.11	0.07	<0.05	<0.10	<0.05	<0.06	<0.05	<0.05
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	<0.02	<0.06	0.07	<0.06	<0.05	<0.02	<0.05	<0.06	<0.05	<0.05
Naphthalene	NA	NA	[210]	0.11	<0.12	<0.10	<0.11	<0.10	0.23	<0.10	<0.11	<0.10	<0.10
Phenanthrene	NA	NA	[14]	3.5	0.12	0.15	<0.06	<0.05	<0.07	<0.05	<0.06	<0.05	0.09
Pyrene	NA	NA	110000	0.8	0.31	0.5	0.43	0.1	<0.10	0.07	<0.06	<0.05	0.08
Other SVOCs (ug/L)	NA	NA	Varies	----	----	----	----	----	----	----	----	----	----

Notes:

Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
F_{10} Sample field filtered using a 10 micron filter
*Turbidity for metals/turbidity for all other constituents

Table 7b
Summary of Constituents Detected in Groundwater South of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-07					MW-08				
Sample Date				6/26/2015[D]	6/16/2016	9/19/2016	12/15/2016	4/3/2017	6/26/2015	6/16/2016	9/19/2016	12/15/2016	3/31/2017
Approximate Sample Depth (feet)				18	19.5	20	0	19.5	14	14.2	14	14	12.5
CONSTITUENT	Res VC	I/C VC	SWPC										
Field Parameters													
pH (su)	NA	NA	NA	6.58	6.56	6.53	Dry	6.37	6.73	8.02	7.58	6.51	6.28
Specific Conductance (uS/cm)	NA	NA	NA	645	803	857	Dry	810	889	1486	1544	863	97
Turbidity (ntu)	NA	NA	NA	9.66	3.54/144.1*	157.2	Dry	40.2	25.4	23.63	13.24	46.04	16.88
Metals (mg/L)						F[10]		F[10]	F[10]	F[10]	F[10]	F[10]	F[10]
Aluminum	NA	NA	[0.87]	0.279	0.013	0.18	Dry	<0.004	**1.88**	0.345	0.795	0.264	0.16
Arsenic	NA	NA	0.004	0.004	<0.004	<0.004	Dry	<0.004	**0.007**	**0.006**	**0.008**	<0.004	<0.004
Barium	NA	NA	[2.2]	0.164	----	----	Dry	----	0.069	----	----	----	----
Cadmium	NA	NA	0.006	<0.001	----	----	Dry	----	<0.001	----	----	----	----
Chromium	NA	NA	0.11	0.013	0.003	0.005	Dry	0.004	0.012	0.003	0.007	0.002	0.001
Copper	NA	NA	0.048	<0.005	----	----	Dry	----	0.023	----	----	----	----
Lead	NA	NA	0.013	0.004	0.003	<0.002	Dry	<0.002	**0.083**	0.009	**0.019**	<0.002	<0.002
Mercury	NA	NA	0.0004	<0.0002	----	----	Dry	----	<0.0002	----	----	----	----
Nickel	NA	NA	0.88	0.001	----	----	Dry	----	0.001	----	----	----	----
Selenium	NA	NA	0.05	<0.010	----	----	Dry	----	<0.011	----	----	----	----
Silver	NA	NA	0.012	<0.001	----	----	Dry	----	<0.001	----	----	----	----
Zinc	NA	NA	0.123	0.002	----	----	Dry	----	0.02	----	----	----	----
ETPH (mg/L)	NA	NA	[0.250]	**0.44**	0.1	**0.26**	Dry	**0.69**	0.17	<0.078	<0.075	<0.074	<0.078
VOCs (ug/L)													
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	12	----	----	Dry	----	<1.0	----	----	----	----
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	2.9	----	----	Dry	----	<1.0	----	----	----	----
Benzene	215	530	710	1.8	----	----	Dry	----	<0.70	----	----	----	----
Carbon Disulfide	[2100]	[5200]	[150]	<5.0	----	----	Dry	----	5.4	----	----	----	----
Chloromethane	[130]	[1800]	[10000]	<1.0	----	----	Dry	----	<1.0	----	----	----	----
Ethylbenzene	50000	50000	580000	27	----	----	Dry	----	<1.0	----	----	----	----
Isopropylbenzene	[900]	[2200]	[210]	13	----	----	Dry	----	<1.0	----	----	----	----
n-Propylbenzene	[1200]	[2900]	[10000]	1.1	----	----	Dry	----	<1.0	----	----	----	----
p-Isopropyltoluene	[870]	[2100]	[200]	3.4	----	----	Dry	----	<1.0	----	----	----	----
Styrene	580	2065	[320]	<1.0	----	----	Dry	----	<1.0	----	----	----	----
Toluene	23500	50000	4000000	1.7	----	----	Dry	----	<1.0	----	----	----	----
Xylene (total)	21300	50000	[270]	49	----	----	Dry	----	<1.0	----	----	----	----
m,p-Xylenes	NA	NA	NA	26	----	----	Dry	----	<1.0	----	----	----	----
o-Xylene	NA	NA	NA	24	----	----	Dry	----	<1.0	----	----	----	----
PAHs (ug/L)													
2-Methylnaphthalene	NA	NA	[62]	24	1.1	<0.05	Dry	0.31	0.22	0.27	<0.06	<0.05	<0.05
Acenaphthene	NA	NA	[150]	2.6	3.3	5.7	Dry	1.7	4.6	2	0.83	1	<0.05
Acenaphthylene	NA	NA	0.3	**1**	0.24	**0.45**	Dry	0.18	<0.11	**0.36**	**0.33**	0.14	<0.05
Anthracene	NA	NA	1100000	1.7	0.26	0.49	Dry	0.27	0.51	0.24	0.08	0.16	<0.05
Benzo(a)anthracene	NA	NA	0.3	0.2	<0.05	0.06	Dry	<0.05	0.16	0.25	<0.06	0.06	<0.05
Benzo(a)pyrene	NA	NA	0.3	0.09	<0.05	0.05	Dry	<0.05	0.11	0.24	<0.06	<0.05	<0.05
Benzo(b)fluoranthene	NA	NA	0.3	0.12	<0.05	<0.05	Dry	<0.05	0.12	0.2	<0.06	<0.05	<0.05
Benzo(ghi)perylene	NA	NA	[150]	<0.10	<0.05	<0.05	Dry	<0.05	<0.11	0.12	<0.06	<0.05	<0.05
Benzo(k)fluoranthene	NA	NA	0.3	0.05	<0.05	<0.05	Dry	<0.05	0.05	0.22	<0.06	<0.05	<0.05
Chrysene	NA	NA	[0.54]	0.21	<0.05	0.07	Dry	<0.05	0.17	0.28	0.06	<0.05	<0.05
Dibenzo(a,h)anthracene	NA	NA	[0.30]	<0.01	<0.01	<0.01	Dry	<0.01	<0.01	0.05	<0.01	<0.01	<0.01
Fluoranthene	NA	NA	3700	0.88	0.07	0.14	Dry	<0.05	0.77	0.61	0.29	0.16	<0.05
Fluorene	NA	NA	140000	4.3	0.36	0.1	Dry	0.26	1.4	0.63	0.08	0.34	<0.05
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	0.06	<0.05	<0.05	Dry	<0.05	0.05	0.12	<0.06	<0.05	<0.05
Naphthalene	NA	NA	[210]	270	23	6.8	Dry	6.2	1.8	0.81	<0.11	<0.11	<0.10
Phenanthrene	NA	NA	[14]	**15**	0.53	0.65	Dry	0.22	3.3	0.69	0.08	0.51	<0.05
Pyrene	NA	NA	110000	1	0.1	0.21	Dry	0.06	0.9	0.8	0.65	0.24	0.06
Other SVOCs (ug/L)	NA	NA	Varies	----	----	----	Dry	----	----	----	----	----	----

Notes:

Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
F_{10} Sample field filtered using a 10 micron filter
*Turbidity for metals/turbidity for all other constituents

Table 7b
Summary of Constituents Detected in Groundwater South of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-09		MW-12				MW-13			
Sample Date				6/24/2015	6/26/2015	6/16/2016	9/19/2016[D]	12/15/2016	3/31/2017[D]	6/16/2016[D]	9/19/2016	12/15/2016	4/3/2017
Approximate Sample Depth (feet)				9	9	11.5	11.5	12	11.5	14.6	15.5	0	15.5
CONSTITUENT	Res VC	I/C VC	SWPC										
Field Parameters													
pH (su)	NA	NA	NA	----	8.54	5.92	5.92	5.98	6.48	6.07	5.69	Dry	----
Specific Conductance (uS/cm)	NA	NA	NA	----	1242	2038	1980	903	1172	790	1122	Dry	----
Turbidity (ntu)	NA	NA	NA	----	----	5.82	0.87	19.98	62.48	4.03	5.19	Dry	----
Metals (mg/L)							F[10]	F[10]	F[10]				F[10]
Aluminum	NA	NA	[0.87]	**3.57**	----	**1.38**	**0.911**	**0.939**	**1.36**	0.586	0.817	Dry	0.653
Arsenic	NA	NA	0.004	**0.007**	----	<0.004	<0.004	<0.004	**0.005**	<0.004	<0.004	Dry	<0.004
Barium	NA	NA	[2.2]	0.048	----	----	----	----	----	----	----	Dry	----
Cadmium	NA	NA	0.006	<0.001	----	----	----	----	----	----	----	Dry	----
Chromium	NA	NA	0.11	0.012	----	0.001	<0.001	<0.001	<0.001	0.005	0.004	Dry	0.008
Copper	NA	NA	0.048	0.018	----	----	----	----	----	----	----	Dry	----
Lead	NA	NA	0.013	0.004	----	0.005	<0.002	<0.002	<0.002	0.003	<0.002	Dry	<0.002
Mercury	NA	NA	0.0004	<0.0002	----	----	----	----	----	----	----	Dry	----
Nickel	NA	NA	0.88	0.005	----	----	----	----	----	----	----	Dry	----
Selenium	NA	NA	0.05	<0.010	----	----	----	----	----	----	----	Dry	----
Silver	NA	NA	0.012	<0.001	----	----	----	----	----	----	----	Dry	----
Zinc	NA	NA	0.123	0.044	----	----	----	----	----	----	----	Dry	----
ETPH (mg/L)	NA	NA	[0.250]	----	----	<0.070	<0.082	<0.076	<0.070	**1.4**	**1.7**	Dry	**250**
VOCs (ug/L)													
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	----	<1.0	----	----	----	----	----	52	Dry	----
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	----	<1.0	----	----	----	----	----	13	Dry	----
Benzene	215	530	710	----	<0.70	----	----	----	----	----	42	Dry	----
Carbon Disulfide	[2100]	[5200]	[150]	----	<5.0	----	----	----	----	----	<5.0	Dry	----
Chloromethane	[130]	[1800]	[10000]	----	<1.0	----	----	----	----	----	<1.0	Dry	----
Ethylbenzene	50000	50000	580000	----	<1.0	----	----	----	----	----	230	Dry	----
Isopropylbenzene	[900]	[2200]	[210]	----	<1.0	----	----	----	----	----	70	Dry	----
n-Propylbenzene	[1200]	[2900]	[10000]	----	<1.0	----	----	----	----	----	4.1	Dry	----
p-Isopropyltoluene	[870]	[2100]	[200]	----	<1.0	----	----	----	----	----	12	Dry	----
Styrene	580	2065	[320]	----	<1.0	----	----	----	----	----	25	Dry	----
Toluene	23500	50000	4000000	----	<1.0	----	----	----	----	----	65	Dry	----
Xylene (total)	21300	50000	[270]	----	<1.0	----	----	----	----	----	**300**	Dry	----
m,p-Xylenes	NA	NA	NA	----	<1.0	----	----	----	----	----	120	Dry	----
o-Xylene	NA	NA	NA	----	<1.0	----	----	----	----	----	180	Dry	----
PAHs (ug/L)													
2-Methylnaphthalene	NA	NA	[62]	----	----	<0.05	<0.05	<0.05	<0.05	110	63	Dry	**1400**
Acenaphthene	NA	NA	[150]	----	----	<0.05	<0.05	<0.05	<0.05	33	<39	Dry	**920**
Acenaphthylene	NA	NA	0.3	----	----	<0.05	<0.05	0.06	<0.05	**25**	<39	Dry	**150**
Anthracene	NA	NA	1100000	----	----	<0.05	<0.05	0.06	<0.05	<35	<39	Dry	300
Benzo(a)anthracene	NA	NA	0.3	----	----	<0.05	<0.05	0.23	0.07	<35	<39	Dry	**130**
Benzo(a)pyrene	NA	NA	0.3	----	----	<0.05	<0.05	0.23	0.07	<35	<39	Dry	**84**
Benzo(b)fluoranthene	NA	NA	0.3	----	----	<0.05	<0.05	0.22	0.06	<35	<39	Dry	<36
Benzo(ghi)perylene	NA	NA	[150]	----	----	<0.05	<0.05	0.12	<0.05	<35	<39	Dry	<34
Benzo(k)fluoranthene	NA	NA	0.3	----	----	<0.05	<0.05	0.19	0.07	<35	<39	Dry	**57**
Chrysene	NA	NA	[0.54]	----	----	<0.05	<0.05	0.2	0.07	<35	<39	Dry	**130**
Dibenzo(a,h)anthracene	NA	NA	[0.30]	----	----	<0.01	<0.01	0.05	<0.01	<35	<39	Dry	<34
Fluoranthene	NA	NA	3700	----	----	<0.05	0.09	0.45	0.12	<35	<39	Dry	<74
Fluorene	NA	NA	140000	----	----	<0.05	<0.05	<0.05	<0.05	<35	<39	Dry	340
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	----	----	<0.05	<0.05	0.14	<0.05	<35	<39	Dry	<36
Naphthalene	NA	NA	[210]	----	----	<0.11	0.15	<0.10	<0.10	640	1100	Dry	**2100**
Phenanthrene	NA	NA	[14]	----	----	<0.05	<0.05	0.15	<0.05	**24**	<39	Dry	**1900**
Pyrene	NA	NA	110000	----	----	<0.05	0.09	0.42	0.12	<35	<39	Dry	340
Other SVOCs (ug/L)	NA	NA	Varies	----	----	----	----	----	----	----	----	Dry	----

Notes:

Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
F_{10} Sample field filtered using a 10 micron filter
*Turbidity for metals/turbidity for all other constituents

Table 7b
Summary of Constituents Detected in Groundwater South of the Hockanum River
Former Anocoil Corporation
Vernon, Connecticut

Monitoring Well ID				MW-14				
Sample Date				6/16/2016	9/19/2016	12/15/2016	1/13/2017	3/31/2017
Approximate Sample Depth (feet)				24	22	23	23	23
CONSTITUENT	Res VC	I/C VC	SWPC					
Field Parameters								
pH (su)	NA	NA	NA	6.25	6.13	5.95	5.78	5.94
Specific Conductance (uS/cm)	NA	NA	NA	1365	1223	878	1090	1150
Turbidity (ntu)	NA	NA	NA	1.32/13.73*	36.76	492.4	27.81	98.59
Metals (mg/L)					F^{10}	F^{10}		F^{10}
Aluminum	NA	NA	[0.87]	0.044	0.092	0.5	----	0.126
Arsenic	NA	NA	0.004	<0.004	<0.004	<0.004	----	0.004
Barium	NA	NA	[2.2]	----	----	----	----	----
Cadmium	NA	NA	0.006	----	----	----	----	----
Chromium	NA	NA	0.11	<0.001	<0.001	0.003	----	<0.001
Copper	NA	NA	0.048	----	----	----	----	----
Lead	NA	NA	0.013	<0.002	<0.002	0.008	----	<0.002
Mercury	NA	NA	0.0004	----	----	----	----	----
Nickel	NA	NA	0.88	----	----	----	----	----
Selenium	NA	NA	0.05	----	----	----	----	----
Silver	NA	NA	0.012	----	----	----	----	----
Zinc	NA	NA	0.123	----	----	----	----	----
ETPH (mg/L)	NA	NA	[0.250]	<0.070	<0.076	----	----	<0.070
VOCs (ug/L)								
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	----	----	<1.0	----	<1.0
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	----	----	<1.0	----	<1.0
Benzene	215	530	710	----	----	<0.70	----	<0.70
Carbon Disulfide	[2100]	[5200]	[150]	----	----	<5.0	----	<5.0
Chloromethane	[130]	[1800]	[10000]	----	----	<1.0	----	<1.0
Ethylbenzene	50000	50000	580000	----	----	<1.0	----	<1.0
Isopropylbenzene	[900]	[2200]	[210]	----	----	<1.0	----	<1.0
n-Propylbenzene	[1200]	[2900]	[10000]	----	----	<1.0	----	<1.0
p-Isopropyltoluene	[870]	[2100]	[200]	----	----	<1.0	----	<1.0
Styrene	580	2065	[320]	----	----	<1.0	----	<1.0
Toluene	23500	50000	4000000	----	----	<1.0	----	<1.0
Xylene (total)	21300	50000	[270]	----	----	<1.0	----	<1.0
m,p-Xylenes	NA	NA	NA	----	----	<1.0	----	<1.0
o-Xylene	NA	NA	NA	----	----	<1.0	----	<1.0
PAHs (ug/L)							Resample**	
2-Methylnaphthalene	NA	NA	[62]	<0.05	<0.05	0.1	<0.05	<0.06
Acenaphthene	NA	NA	[150]	0.08	<0.05	0.24	<0.05	<0.06
Acenaphthylene	NA	NA	0.3	<0.05	<0.05	**2.8**	<0.05	<0.06
Anthracene	NA	NA	1100000	<0.05	<0.05	1.2	<0.05	<0.06
Benzo(a)anthracene	NA	NA	0.3	<0.05	<0.05	**4.8**	0.08	<0.06
Benzo(a)pyrene	NA	NA	0.3	<0.05	<0.05	**5**	0.07	<0.06
Benzo(b)fluoranthene	NA	NA	0.3	<0.05	<0.05	**4.5**	0.05	<0.06
Benzo(ghi)perylene	NA	NA	[150]	<0.05	<0.05	2.5	<0.05	<0.06
Benzo(k)fluoranthene	NA	NA	0.3	<0.05	<0.05	**3.7**	0.06	<0.06
Chrysene	NA	NA	[0.54]	<0.05	<0.05	**4.7**	0.08	<0.06
Dibenzo(a,h)anthracene	NA	NA	[0.30]	<0.01	<0.01	**1.1**	<0.01	<0.01
Fluoranthene	NA	NA	3700	0.15	0.23	9.1	0.21	<0.06
Fluorene	NA	NA	140000	<0.05	<0.05	0.34	<0.05	<0.06
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	<0.05	<0.05	**3**	<0.05	<0.06
Naphthalene	NA	NA	[210]	<0.10	<0.10	<0.10	<0.11	<0.11
Phenanthrene	NA	NA	[14]	<0.05	<0.05	2.6	<0.05	<0.06
Pyrene	NA	NA	110000	0.18	0.3	10	0.24	<0.06
Other SVOCs (ug/L)	NA	NA	Varies	----	----	----	----	----

Notes:
Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
NE = no established criteria
ND = not detected
---- = not analyzed

< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
^{D}Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
F_{10} Sample field filtered using a 10 micron filter
*Turbidity for metals/turbidity for all other constituents
**Resample due to elevated turbidity of initial sample

Table 8
Summary of Constituents Detected in Soil Following Pipe Trench Remediation
AOC 7 - Former 20,000-Gallon Fuel Oil USTs
Former Anocoil Corporation
Vernon, Connecticut

			Phase II/III Soil Borings										Confirmatory Soil Sampling					
Site ID			MW-04		SB-46		SB-48		SB-49		SB-50		A07-01	A07-02	A07-03	A07-04	A07-05	A07-06
Site ID			4/28/2015		6/22/2015		6/22/2015		6/22/2015		6/22/2015		7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017	7/31/2017
Sample Date																		
Approximate Sample Depth (feet)			5 - 7	*8 - 9*	0 - 4	5 - 7.5	5 - 7	*8 - 10*	6 - 8	*11 - 13* [D]	6 - 8	*10 - 11*	5 - 7 [D]	5 - 7	5 - 7	5 - 7	5 - 7	6 - 7
CONSTITUENT	GB PMC	I/C DEC																
ETPH (mg/kg)	2500	2500	1300	*1000*	170	----	**3600**	*<60*	<55	***7500***	380	----	<57	<63	420	<54	<53	<64
PAHs (ug/kg)																		
2-Methylnaphthalene	[5600]	[1000000]	800	*<320*	<270	<270	3900	*<280*	<260	*67000*	770	*<280*	<380	<430	<400	<360	<360	<430
Acenaphthene	[84000]	[2500000]	<280	*390*	<270	<270	<2800	*<280*	<260	*<9100*	<550	*<280*	----	----	----	----	----	----
Acenaphthylene	84000	2500000	<280	*490*	<270	<270	<2800	*<280*	400	*29000*	760	*<280*	----	----	----	----	----	----
Anthracene	400000	2500000	<280	*1200*	1500	290	<2800	*<280*	<260	*30000*	<550	*<280*	----	----	----	----	----	----
Benzo(a)anthracene	1000	7800	**1300**	*1500*	**3800**	540	<2800	*<280*	260	*19000*	580	*<280*	----	----	----	----	----	----
Benzo(a)pyrene	1000	[[3000]]	**1400**	*980*	**3000**	480	<2800	*<280*	300	*12000*	**1100**	*<280*	----	----	----	----	----	----
Benzo(b)fluoranthene	1000	7800	**1400**	*910*	**3200**	630	<2800	*<280*	400	*12000*	**1100**	*<280*	----	----	----	----	----	----
Benzo(ghi)perylene	[1000]	[78000]	**1400**	*540*	**1400**	350	**5100**	*<280*	340	*<9100*	**1700**	*<280*	----	----	----	----	----	----
Benzo(k)fluoranthene	1000	78000	710	*380*	**2700**	<270	<2800	*<280*	<260	*<9100*	<550	*<280*	----	----	----	----	----	----
Chrysene	[1000]	[780000]	**1400**	*2200*	**4000**	430	<2800	*<280*	280	*19000*	690	*<280*	----	----	----	----	----	----
Dibenzo(a,h)anthracene	[1000]	[1000]	<280	*<320*	370	<270	<2800	*<280*	<260	*<9100*	<550	*<280*	----	----	----	----	----	----
Fluoranthene	56000	2500000	1300	*2000*	8100	1200	<2800	*<280*	490	*39000*	850	*<280*	----	----	----	----	----	----
Fluorene	56000	2500000	<280	*530*	530	<270	<2800	*<280*	<260	*24000*	<550	*<280*	----	----	----	----	----	----
Indeno (1,2,3-cd)pyrene	[1000]	[7800]	750	*510*	**1600**	390	<2800	*<280*	300	*<9100*	830	*<280*	----	----	----	----	----	----
Naphthalene	56000	2500000	520	*<320*	<270	<270	<2800	*<280*	<260	*45000*	<550	*<280*	----	----	----	----	----	----
Phenanthrene	40000	2500000	760	*9200*	6000	950	<2800	*<280*	300	*180000*	610	*<280*	----	----	----	----	----	----
Pyrene	40000	2500000	1300	*2800*	7100	940	21000	*<280*	440	*55000*	1600	*<280*	----	----	----	----	----	----
VOCs (ug/kg)																		
1,2,4-Trimethylbenzene	[28000]	[1000000]	----	*<400*	----	<440	<450	----	<300	*290*	<330	----	----	----	----	----	----	----
p-Isopropyltoluene	[5000]	[1000000]	----	*<400*	----	<440	<450	----	<300	*440*	<330	----	----	----	----	----	----	----
Tetrachloroethene	100	110000	----	*8.1*	----	<6.9	<7.8	----	<5.3	*<430*	<4.9	----	----	----	----	----	----	----

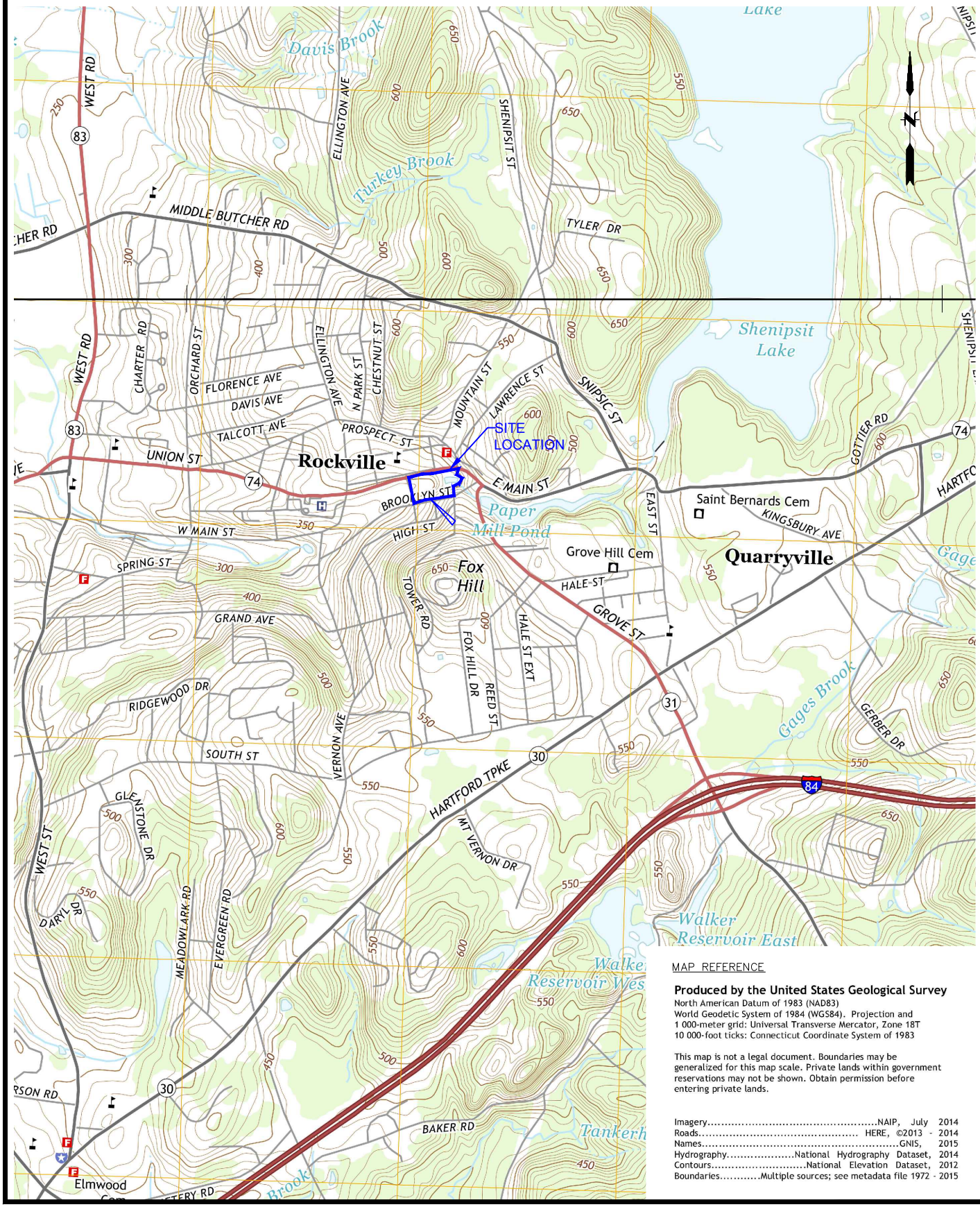
Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
PMC = pollutant mobility criteria: apply above the seasonal high water table
DEC = direct exposure criteria (Res = residential, I/C = industrial/commercial): apply to a depth of 15 feet
[1000] = DEEP-approved fast-track additional polluting substances criteria
[[3000]] = DEEP-approved alternative criteria
Gray shaded sample depths indicates soil that was removed during remediation on 7/31/2017
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria
Italicized value indicates a sample from below the water table (PMC do not apply)
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

Table 9
Summary of Constituents Dected During Post-Remediation Groundwater Monitoring for AOCs 7 and 12
Former Anocoil Corporation
Vernon, Connecticut

			Well ID	MW-07				MW-08				MW-13				MW-14			
			Sample Date	8/24/2017	11/20/2017	2/23/2018	5/25/2018	8/24/2017	11/20/2017	2/23/2018	5/25/2018	8/24/2017[D]	11/20/2017	2/23/2018[D]	5/25/2018[D]	8/24/2017	11/20/2017	2/23/2018	5/25/2018
			Approximate Sample Depth	18	19.5	20.1	20	12.5	14	13	14	14.5	NA	15.7	15	23	23	22	22
CONSTITUENT	Res VC	I/C VC	SWPC																
Field Parameters																			
pH (su)	NA	NA	NA	6.33	6.52	6.45	6.64	7.85	7.58	5.28	7.46	6.08	*	6.56	6.14	6.1	5.96	6.09	6.26
Specific Conductance (uS/cm)	NA	NA	NA	599	903	694	846	1466	958	597	1418	904	*	911	1354	1249	1167	1165	1563
Turbidity (ntu)	NA	NA	NA	287.5	187.2	35.87	175	25.91	50.04	5.6	46.3	6.05	*	2.96	16.42	98.4	128.1	16.12	64.6
ETPH (mg/L)	NA	NA	[0.250]	<0.071	0.24	<0.075	<0.076	<0.077	<0.077	<0.078	<0.076	**1**	*	**0.79**	**2.1**	<0.075	<0.075	<0.074	<0.074
VOCs (ug/L)																			
1,2,4-Trimethylbenzene	[940]	[12800]	[150]	<1.0	1.6	<1.0	1.2	<1.0	<1.0	<1.0	<1.0	26	*	7.9	34	<1.0	<1.0	<1.0	<1.0
1,3,5-Trimethylbenzene	[730]	[10000]	[260]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	6.2	*	1.7	7.4	<1.0	<1.0	<1.0	<1.0
Benzene	215	530	710	<1.0	2.1	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	25	*	<1.0	28	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	50000	50000	580000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	130	*	18	150	<1.0	<1.0	<1.0	<1.0
Isopropylbenzene	[900]	[2200]	[210]	<1.0	5	1.3	2.9	<1.0	<1.0	<1.0	<1.0	45	*	8.5	42	<1.0	<1.0	<1.0	<1.0
n-Propylbenzene	[1200]	[2900]	[10000]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.9	*	<1.0	3.4	<1.0	<1.0	<1.0	<1.0
p-Isopropyltoluene	[870]	[2100]	[200]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	8.4	*	3	7	<1.0	<1.0	<1.0	<1.0
Styrene	580	2065	[320]	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	12	*	<1.0	22	<1.0	<1.0	<1.0	<1.0
Toluene	23500	50000	4000000	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	30	*	1.7	61	<1.0	<1.0	<1.0	<1.0
Xylene (total)	21300	50000	[270]	<1.0	5.4	1.5	3.5	<1.0	<1.0	<1.0	<1.0	138	*	20.8	195	<1.0	<1.0	<1.0	<1.0
m,p-Xylenes	21300	50000	NA	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	54	*	9.8	75	<2.0	<2.0	<2.0	<2.0
o-Xylene	21300	50000	NA	<1.0	5.4	1.5	3.5	<1.0	<1.0	<1.0	<1.0	84	*	11	120	<1.0	<1.0	<1.0	<1.0
PAHs (ug/L)																			
2-Methylnaphthalene	NA	NA	[62]	<0.05	0.17	<0.05	0.13	0.11	<0.06	<0.06	<0.05	41	*	54	7	<0.05	<0.05	<0.05	<0.05
Acenaphthene	NA	NA	[150]	0.34	2.1	1.4	2.9	1.4	0.33	<0.06	0.52	20	*	65	20	<0.05	<0.05	<0.05	<0.05
Acenaphthylene	NA	NA	0.3	0.06	0.28	0.2	0.17	0.3	<0.06	<0.06	0.08	<7.1	*	**18**	**10**	<0.05	<0.05	<0.05	<0.05
Anthracene	NA	NA	1100000	0.07	0.28	0.26	0.23	0.32	0.07	<0.06	<0.05	<18	*	31	4.3	<0.05	<0.05	<0.05	<0.05
Benzo(a)anthracene	NA	NA	0.3	<0.05	0.21	0.05	<0.05	0.28	0.08	<0.06	<0.05	<8.7	*	**16**	**1.4**	<0.05	<0.05	<0.05	<0.05
Benzo(a)pyrene	NA	NA	0.3	<0.05	0.22	<0.05	<0.05	**0.31**	<0.06	<0.06	<0.05	<8.2	*	**7.4**	**0.86**	<0.05	<0.05	<0.05	<0.05
Benzo(b)fluoranthene	NA	NA	0.3	<0.05	0.29	<0.05	<0.05	0.24	0.13	<0.06	<0.05	<8.7	*	**3**	**0.31**	<0.05	<0.05	<0.05	<0.05
Benzo(ghi)perylene	NA	NA	[150]	<0.05	0.14	<0.05	<0.05	0.17	<0.06	<0.06	<0.05	<8.2	*	2.9	0.26	<0.05	<0.05	<0.05	<0.05
Benzo(k)fluoranthene	NA	NA	0.3	<0.05	0.2	<0.05	<0.05	0.25	0.09	<0.06	<0.05	<8.7	*	**5.1**	**0.52**	<0.05	<0.05	<0.05	<0.05
Chrysene	NA	NA	[0.54]	<0.05	0.23	<0.05	<0.05	0.29	0.08	<0.06	<0.05	<8.7	*	15	1.2	<0.05	<0.05	<0.05	<0.05
Dibenzo(a,h)anthracene	NA	NA	[0.30]	<0.01	0.02	<0.01	<0.01	0.04	0.02	<0.01	<0.01	<8.2	*	**1.7**	0.13	0.01	<0.01	<0.01	<0.01
Fluoranthene	NA	NA	3700	0.06	0.48	0.15	0.1	0.85	0.26	<0.06	0.11	<18	*	28	3.3	0.13	0.11	<0.05	<0.05
Fluorene	NA	NA	140000	<0.05	0.17	0.15	0.19	0.84	0.26	<0.06	0.11	<18	*	32	7.4	<0.05	<0.05	<0.05	<0.05
Indeno(1,2,3-CD)pyrene	NA	NA	[0.54]	<0.05	0.14	<0.05	<0.05	0.17	<0.06	<0.06	<0.05	<8.7	*	**3**	0.29	<0.05	<0.05	<0.05	<0.05
Naphthalene	NA	NA	[210]	9.4	34	0.73	20	0.44	0.13	<0.11	<0.10	610	*	120	630	<0.11	<0.11	<0.11	<0.11
Phenanthrene	NA	NA	[14]	<0.05	0.33	0.22	0.3	0.67	0.12	<0.06	<0.05	**18**	*	**150**	**24**	<0.05	<0.05	<0.05	<0.05
Pyrene	NA	NA	110000	0.14	0.51	0.24	0.15	1	0.09	<0.06	0.2	<18	*	38	5.2	0.15	0.14	<0.05	<0.05

Notes:
Units: ug=micrograms, mg=milligrams, L=liter
SWPC = surface water protection criteria
VC = volatilization criteria (Res = residential, I/C = industrial/commercial)
NA = not applicable
ND = not detected
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold value indicates a concentration reported above baseline RSR criteria (MW-14 is the downgradient location)
[Value] = DEEP-approved additional polluting substances
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported
*Trace petroleum was observed in the sample; therefore the sample was not analyzed

Figures



MAP REFERENCE

Produced by the United States Geological Survey
North American Datum of 1983 (NAD83)
World Geodetic System of 1984 (WGS84). Projection and
1 000-meter grid: Universal Transverse Mercator, Zone 18T
10 000-foot ticks: Connecticut Coordinate System of 1983

This map is not a legal document. Boundaries may be generalized for this map scale. Private lands within government reservations may not be shown. Obtain permission before entering private lands.

Imagery	NAIP,	July 2014
Roads	HERE,	©2013 - 2014
Names	GNIS,	2015
Hydrography	National Hydrography Dataset,	2014
Contours	National Elevation Dataset,	2012
Boundaries	Multiple sources; see metadata file	1972 - 2015

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

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860.646.2469
www.fando.com

SITE LOCATION MAP

ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 1

File Path: J:\DWG\P2001454\R30\Environmental\Plan\2001454R30_STP01_site loc.dwg Layout: 08.5X11-P Plotted: Sun, May 13, 2018 - 11:29 AM User: srochelt
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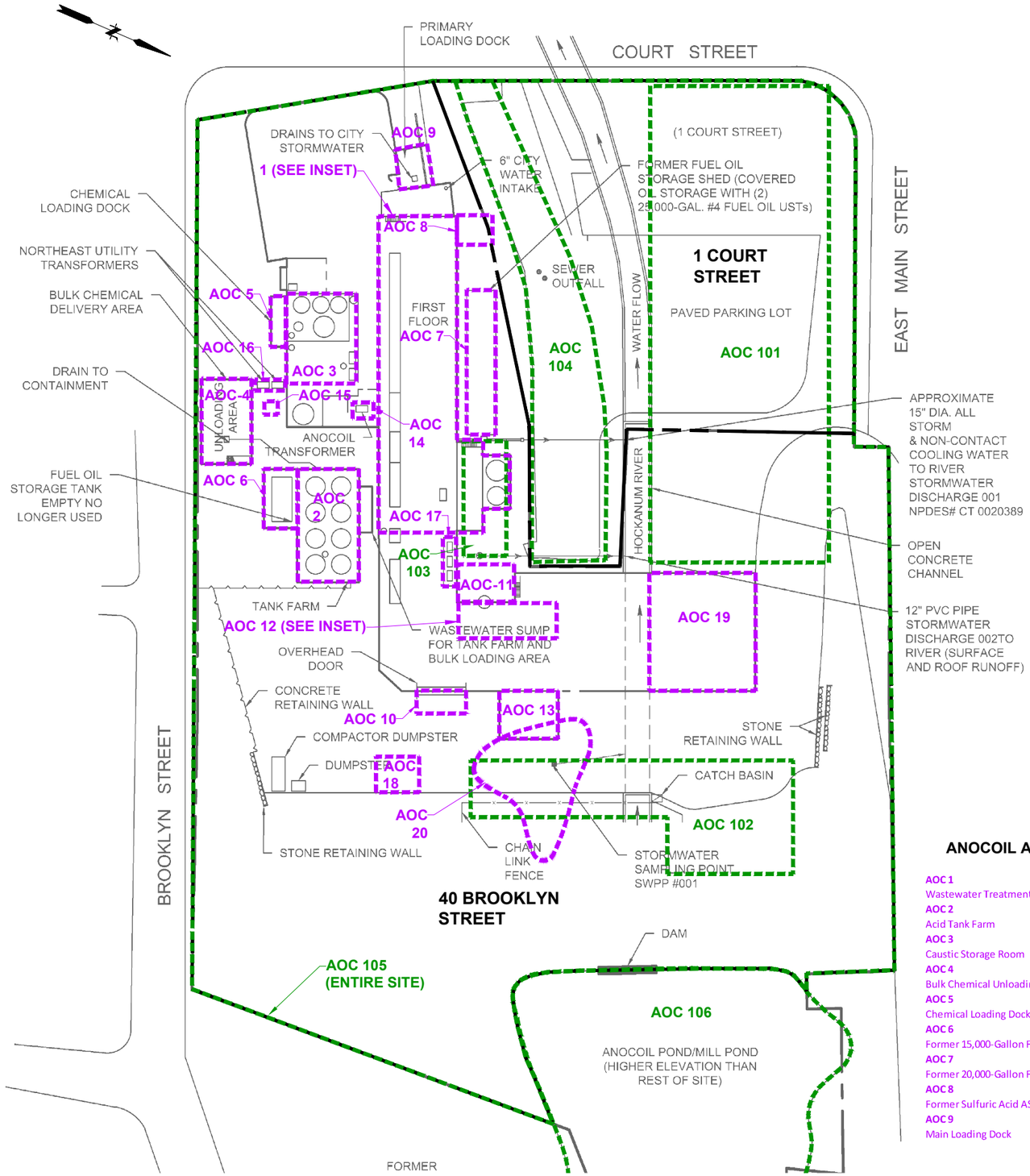

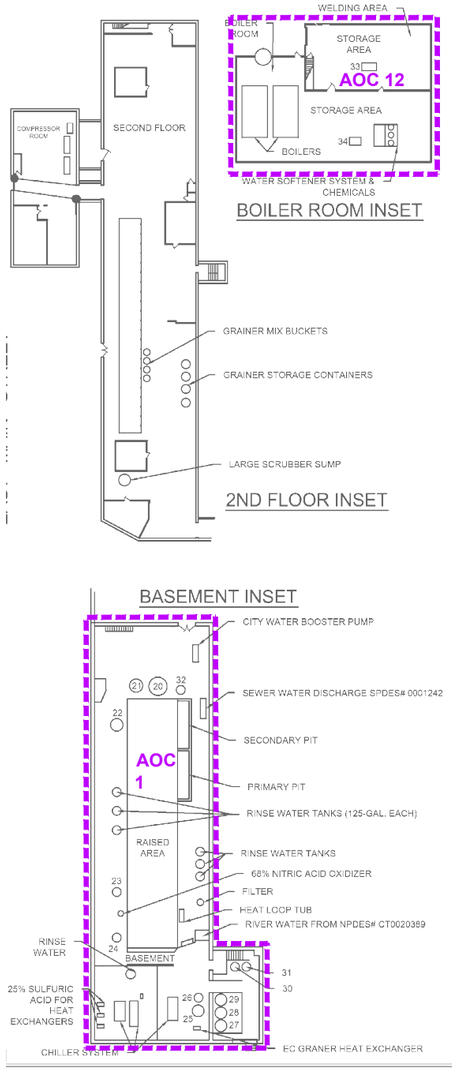

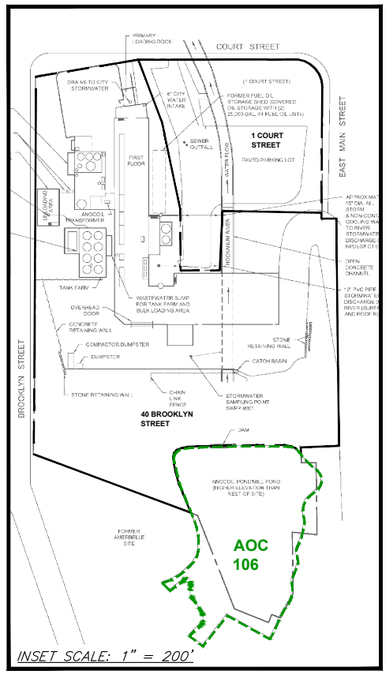

NOTE:
BASEMAPS: SITE PLAN AND INTERIOR BUILDING PLAN, 1 COURT STREET & 40 BROOKLYN STREET (60 EAST MAIN STREET), VERNON, CONNECTICUT, HRP, 2-25-2015

HISTORICAL AREAS OF CONCERN (AOCS)

AOC 101
Foundry and Pattern Shop
AOC 102
Textile Mill
AOC 103
Coal House
AOC 104
Railroad Spur
AOC 105
Fill
AOC 106
Pond

ANOCOIL AREAS OF CONCERN (AOCS)

AOC 1
Wastewater Treatment
AOC 2
Acid Tank Farm
AOC 3
Caustic Storage Room
AOC 4
Bulk Chemical Unloading Area
AOC 5
Chemical Loading Dock
AOC 6
Former 15,000-Gallon Fuel Oil AST
AOC 7
Former 20,000-Gallon Fuel Oil USTs
AOC 8
Former Sulfuric Acid ASTs and Historical Storage
AOC 9
Main Loading Dock
AOC 10
East Loading Bay
AOC 11
Former Boiler Room Loading Bay
AOC 12
Former Boiler Room (Basement)
AOC 13
Active Boiler Room
AOC 14
Anocoil Pad-Mounted Transformer
AOC 15
Former Pad-Mounted Transformers
AOC 16
Northeast Utility Transformers
AOC 17
Interior Midel Oil Transformers (3)
AOC 18
Trash Compactor
AOC 19
Maintenance Area & Maintenance Cellar
AOC 20
PCE Release

SCALE:
HORZ.: 1" = 70'
VERT.:
DATUM:
HORZ.:
VERT.:
0 35 70
GRAPHIC SCALE

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SITE MAP AND AREAS OF CONCERN
ANOCOIL CORPORATION
VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 2

File Path: J:\DWG\P2001454R30\Environmental\Plan\2001454R30_STP03_aocs.dwg Layout: 11X17-L (R-TBLK) Plotted: Fri, May 18, 2018 - 10:26 AM User: srochelt
MS VIEW: LAYER STATE:
Plotter: DWG TO PDF.PC3 CTB File: FO HALF.STB

NOTE:
BASEMAPS: SITE PLAN AND INTERIOR BUILDING PLAN, 1 COURT STREET & 40 BROOKLYN STREET (60 EAST MAIN STREET), VERNON, CONNECTICUT, HRP, 2–25–2015

PRIMARY LOADING DOCK
COURT STREET
(1 COURT STR
CITY ATER
6" CITY WATER INTAKE
FORMER FUEL OIL STORAGE SHED (CO
OIL STORAGE WITH
25,000-GAL. #4 FUEL
SEWER OUTFALL
FIRST FLOOR
WATER FLOW
HOCKANUM RIVER
PAVED PARKIN
OIL IER
WASTEWATER SUMP

MW-14 381.99
MW-07 385.38
MW-09
MW-01
MW-03 392.62
MW-13 385.75
MW-08 386.78
MW-02
MW-04
MW-11
MW-06
MW-05 389.74
MW-12 389.89

GENERAL DIRECTION OF GROUNDWATER FLOW NORTHEAST OF HOCKANUM RIVER

GROUNDWATER ELEVATION CONTOURS - 8/2017

MW-14 381.13
MW-07 382.91
MW-09
MW-01
MW-03 391.81
MW-13 384.50
MW-08
MW-02
MW-04
MW-11
MW-06
MW-05 389.76
MW-12

GENERAL DIRECTION OF GROUNDWATER FLOW NORTHEAST OF HOCKANUM RIVER

GROUNDWATER ELEVATION CONTOURS - 11/2017

LEGEND

- MONITORING WELL
- 389.89 GROUNDWATER ELEVATION – AUGUST 24, 2017, NOVEMBER 20, 2017, FEBRUARY 23, 2018 OR MAY 25, 2018
- GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION

MW-14 381.54
MW-07 383.57
MW-09 390.95
MW-01
MW-03 392.01
MW-13 384.86
MW-08 387.92
MW-02
MW-04
MW-11
MW-06
MW-05 389.84
MW-12 390.07

GENERAL DIRECTION OF GROUNDWATER FLOW NORTHEAST OF HOCKANUM RIVER

GROUNDWATER ELEVATION CONTOURS - 2/2018

MW-14 382.14
MW-07 384.49
MW-09
MW-01
MW-03 392.39
MW-13 385.31
MW-08 387.44
MW-02
MW-04
MW-11
MW-06
MW-05 389.86
MW-12 390.30

GENERAL DIRECTION OF GROUNDWATER FLOW NORTHEAST OF HOCKANUM RIVER

GROUNDWATER ELEVATION CONTOURS - 5/2018

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

0 20 40
GRAPHIC SCALE

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GROUNDWATER ELEVATION CONTOURS
AUGUST 2017, NOVEMBER 2017, FEBRUARY 2018 AND MAY 2018

ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: JUNE 2018

FIGURE 3

File Path: J:\DWG\P2001\454\R30\Environmental\Plan\2001454R30_GWC_8-2017 - 5-2018.dwg Layout: 11X17-P Plotted: Fri, June 29, 2018 - 2:29 PM User: srochelt
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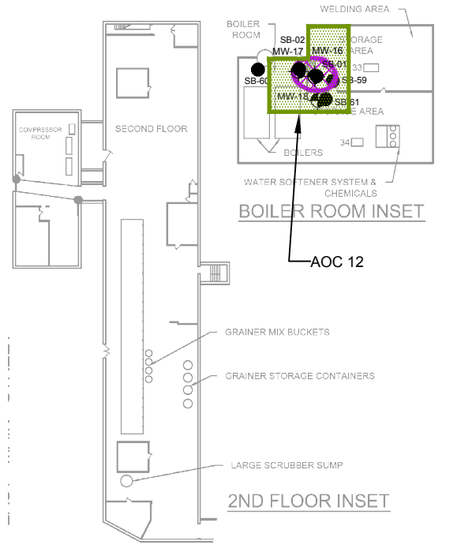

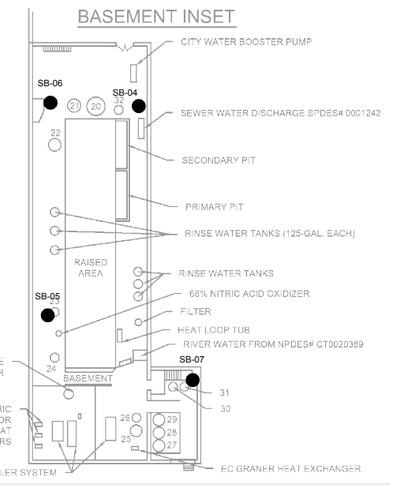

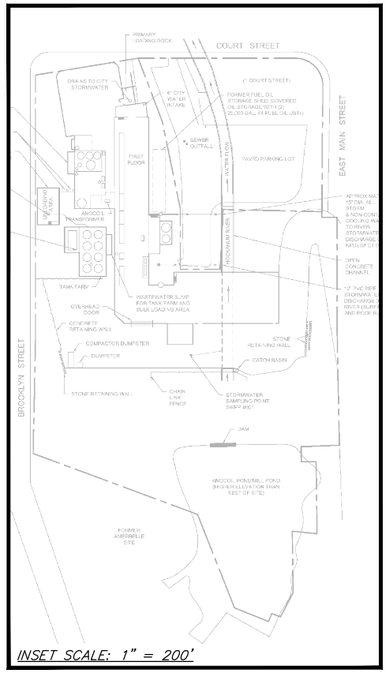

LEGEND

- SOIL BORING
- MONITORING WELL
- SURFICIAL SOIL SAMPLE

NOTE:
BASEMAPS: SITE PLAN AND INTERIOR BUILDING PLAN, 1 COURT STREET & 40 BROOKLYN STREET (60 EAST MAIN STREET), VERNON, CONNECTICUT, HRP, 2-25-2015

- AREAS OF BASELINE DEC OR GB PMC EXCEEDANCES
- EXTENT OF PETROLEUM IMPACTS
  - AOC 101
  - AOC 12
  - AOC 7
- EXTENT OF PCE IMPACTS
  - AOC 102
  - AOC 20

SCALE:
HORZ.: 1" = 70'
VERT.:
DATUM:
HORZ.:
VERT.:
GRAPHIC SCALE 0 35 70

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CONNECTICUT

PHASE II/III SAMPLING LOCATIONS

ANOCOIL CORPORATION
VERNON

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 4

File Path: J:\DWG\P2001454R30\Environmental\Plan\2001454R30_STP04.dwg Layout: 11X17-L (R-TBLK) Plotted: Thu, July 05, 2018 - 11:22 AM User: srochelt
Plotter: DWG TO PDF.PC3 CTB File: FO HALF.STB
MS VIEW: LAYER STATE:

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

NOTES:
- BASE MAP: 2016 AERIAL PHOTOGRAPH FROM CTECO WEBSITE
- SAMPLING LOCATIONS ARE APPROXIMATE
- GZA SAMPLING LOCATIONS FROM "SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS, PREPARED FOR TOWN OF VERNON, 5/06/15

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

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ECOLOGICAL RISK SAPLING LOCATION SURFACE WATER AND SEDIMENT

ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 5

File Path: J:\DWG\P2001\454R30\Environmental\Plan\2001454R30_SAM02_SW SED aerial.dwg Layout: 11X17-L Plotted: Thu, May 17, 2018 - 1:19 PM User: srochelt
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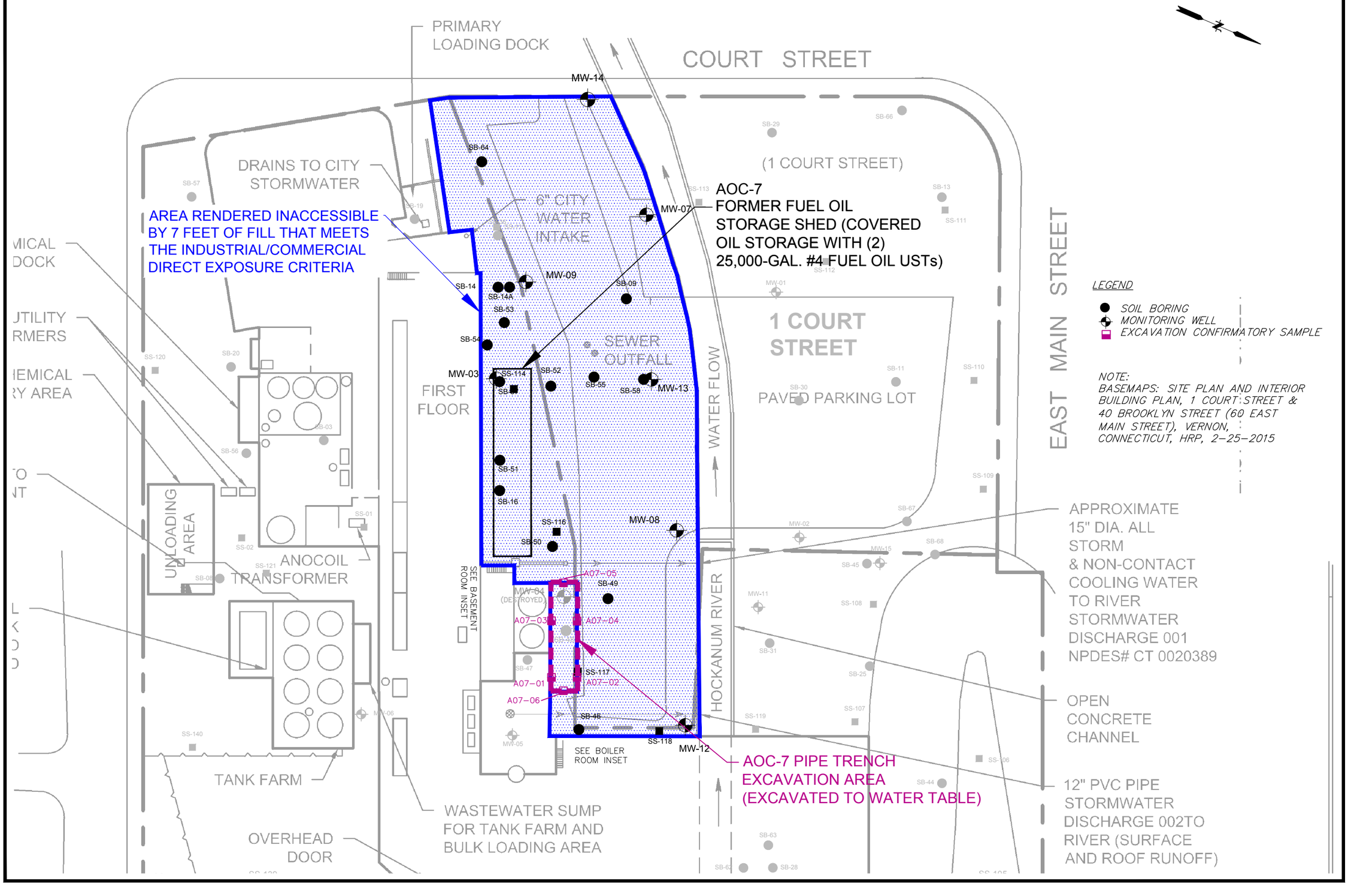

SCALE: HORZ.: 1" = 40'
VERT.:
DATUM: HORZ.:
VERT.:
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GRAPHIC SCALE

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POST REMEDIATION SOIL SAMPLING LOCATIONS AND INACCESSIBLE SOIL AREA (AOC-7)
ANOCOIL CORPORATION
VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 6

File Path: J:\DWG\P2001\454\R30\Environmental\Plan\2001454R30_SAM03.dwg Layout: 11X17-L (R-TBLK) Plotted: Thu, May 17, 2018 - 2:01 PM User: srochelt
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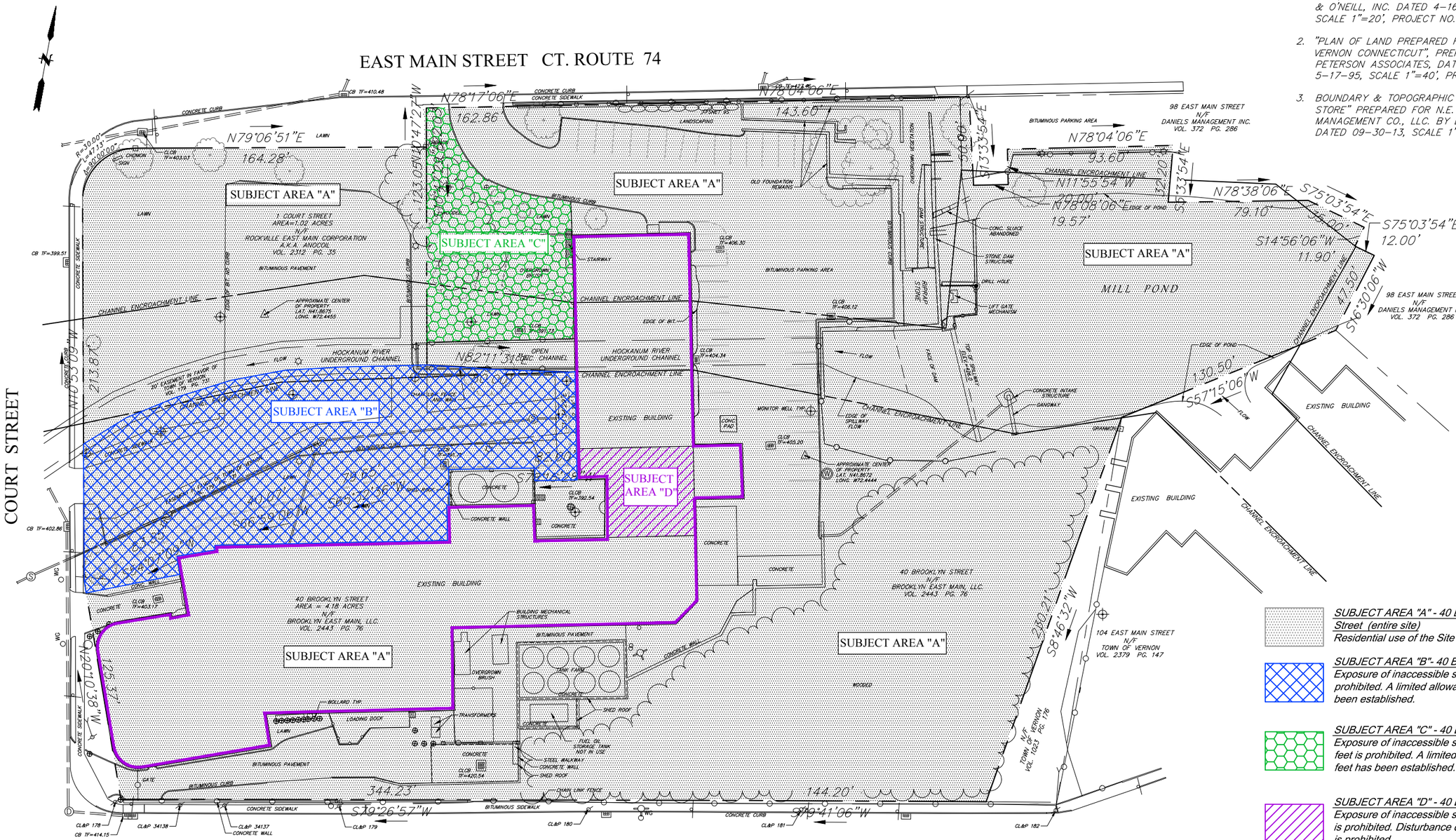

MAP REFERENCES

1. "PLAN PREPARED FOR ANO-COIL CORPORATION" EAST MAIN, COURT & BROOKLYN STREETS, PREPARED BY FUSS & O'NEILL, INC. DATED 4-16-85, REVISED 2-4-87, SCALE 1"=20', PROJECT NO. 85-87A.
2. "PLAN OF LAND PREPARED FOR AMERBELLE CORPORATION, VERNON CONNECTICUT", PREPARED BY GARDNER & PETERSON ASSOCIATES, DATED 3-17-95, REVISED 5-17-95, SCALE 1"=40', PROJECT NO. 9282 B.
3. BOUNDARY & TOPOGRAPHIC SURVEY TITLED "RETAIL STORE" PREPARED FOR N.E. RETAIL LEASING AND MANAGEMENT CO., LLC. BY DESIGN PROFESSIONALS, DATED 09-30-13, SCALE 1"=20', PROJECT NO. 3243.

SUBJECT AREA "A" - 40 Brooklyn Street & 1 Court Street (entire site)
Residential use of the Site is prohibited.

SUBJECT AREA "B"- 40 Brooklyn Street & 1 Court Street
Exposure of inaccessible soil below a depth of 7 feet is prohibited. A limited allowable disturbance of 5 feet has been established.

SUBJECT AREA "C" - 40 Brooklyn Street
Exposure of inaccessible soil below a depth of 10 feet is prohibited. A limited allowable disturbance of 6 feet has been established.

SUBJECT AREA "D" - 40 Brooklyn Street
Exposure of inaccessible soil below the building floor slab is prohibited. Disturbance of the concrete building floor slab is prohibited.

Demolition of the building is prohibited.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SCALE:
HORZ.: 1" = 60'
VERT.:
DATUM:
HORZ.:
VERT.:
0 30 60
GRAPHIC SCALE

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AREAS SUBJECT TO ELUR RESTRICTIONS

ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.: 2001454R30
DATE: MAY 2018

FIGURE 7

File Path: J:\DWG\P2001454R30\Environmental\Plan\2001454R30_STP02_elur subject areas.dwg Layout: 11X17-L Plotted: Fri, May 18, 2018 - 10:23 AM User: srochelt
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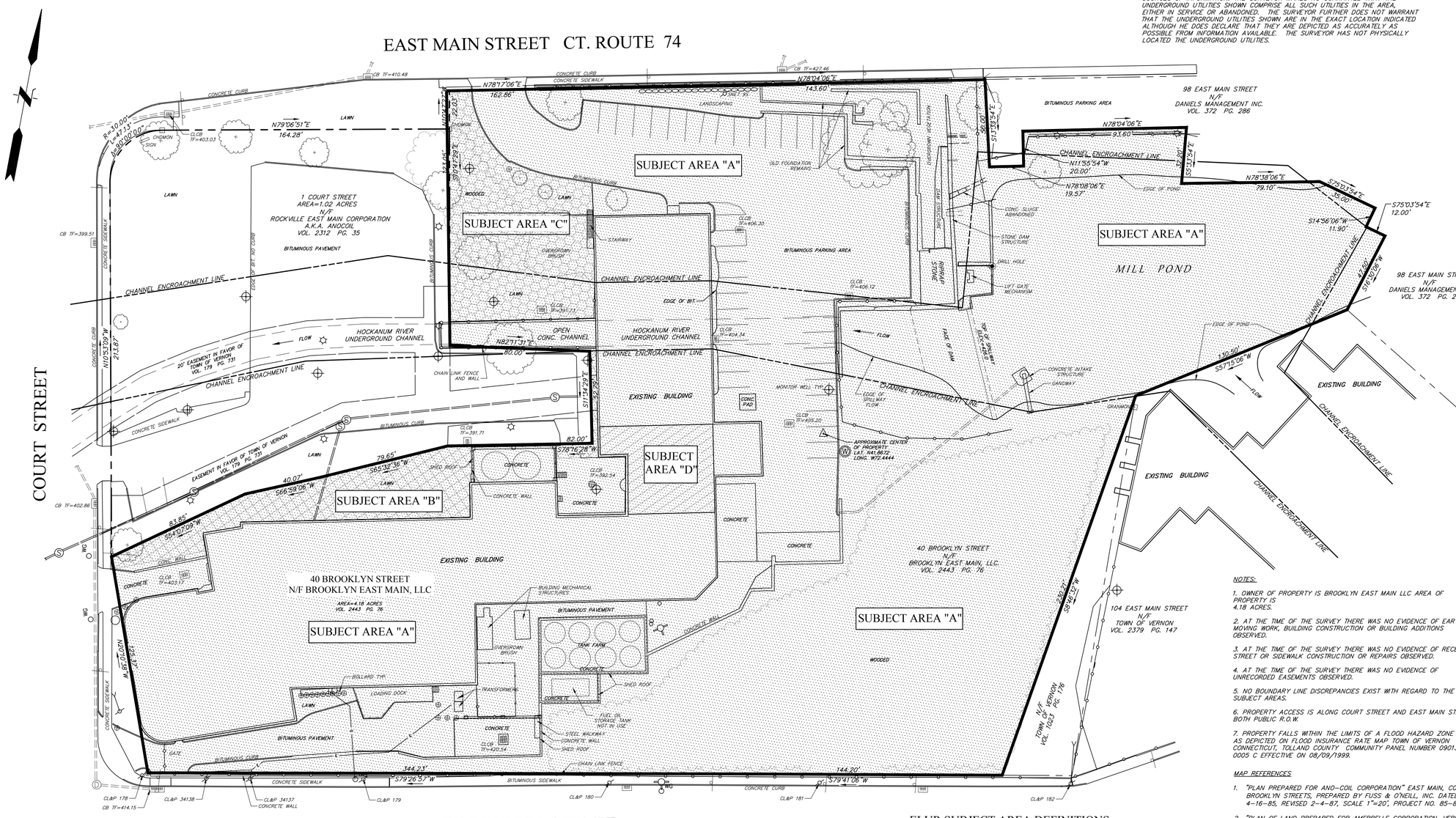
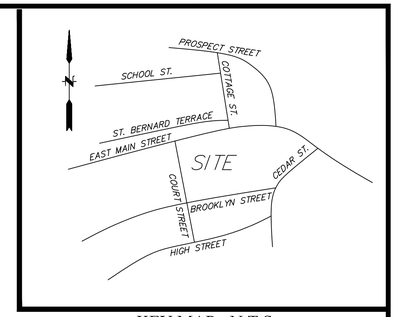
FUSS & O'NEILL

Appendix A

ELUR A2 Survey





KEY MAP - N.T.S.

BROOKLYN STREET

LEGEND

- SANITARY MANHOLE
- STORM MANHOLE
- ELECTRIC MANHOLE
- TELEPHONE MANHOLE
- CATCH BASIN
- FLAT TOP CATCHBASIN
- EXISTING DRILL HOLE
- EXISTING MONUMENT
- MONITOR WELL
- WATER VALVE
- FIRE HYDRANT
- UTILITY POLE
- GUY WIRE
- BOLLARD
- SIGN
- GAS GATE
- WELL
- PEDESTRIAN WALK SIGNAL
- LIGHT
- PROPERTY LINE
- EASEMENT LINE
- EDGE OF WATER
- CURB
- TREELINE
- STONE WALL
- STREAM CHANNEL ENCROACHMENT QUEEN

ZONING INFORMATION
GENERAL REQUIREMENTS FOR HISTORIC DISTRICT–INDUSTRIAL ZONE

MIN. LOT AREA	1 ACRE
MIN. LOT WIDTH	160 FEET
MIN. FRONT YARD	35 FEET
ONE SIDE YARD MIN.	15 FEET
REAR YARD MIN.	30 FEET
MINIMUM FLOOR AREA	10 PERCENT OF LAND AREA

ELUR SUBJECT AREA DEFINITIONS

ELUR SUBJECT A – RESIDENTIAL USE PROHIBITED

ELUR SUBJECT AREA B – DISTURBANCE OF INACCESSIBLE SOIL IS PROHIBITED

ELUR SUBJECT AREA C – DISTURBANCE OF INACCESSIBLE SOIL IS PROHIBITED

ELUR SUBJECT AREA D – DISTURBANCE OF INACCESSIBLE AND ENVIRONMENTALLY ISOLATED SOIL BENEATH THE BUILDING IS PROHIBITED; BUILDING DEMOLITION IS PROHIBITED

UNDERGROUND UTILITY NOTE:

THE UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATION OF VISIBLE FEATURES, MAPS AND PLANS OF RECORD, UTILITY MAPPING OR OTHER SOURCES OF INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES DECLARE THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

NOTES:

1. OWNER OF PROPERTY IS BROOKLYN EAST MAIN LLC AREA OF PROPERTY IS 4.18 ACRES.
2. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED.
3. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED.
4. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF UNRECORDED EASEMENTS OBSERVED.
5. NO BOUNDARY LINE DISCREPANCIES EXIST WITH REGARD TO THE ELUR SUBJECT AREAS.
6. PROPERTY ACCESS IS ALONG COURT STREET AND EAST MAIN STREET BOTH PUBLIC R.O.W.
7. PROPERTY FALLS WITHIN THE LIMITS OF A FLOOD HAZARD ZONE "AE" AS DEPICTED ON FLOOD INSURANCE RATE MAP TOWN OF VERNON CONNECTICUT, TOLLAND COUNTY COMMUNITY PANEL NUMBER 0901310005 C EFFECTIVE ON 08/09/1999.

MAP REFERENCES

1. "PLAN PREPARED FOR ANO–COIL CORPORATION" EAST MAIN, COURT & BROOKLYN STREETS, PREPARED BY FUSS & O'NEILL, INC. DATED 4–16–85, REVISED 2–4–87, SCALE 1"=20', PROJECT NO. 85–87A.
2. "PLAN OF LAND PREPARED FOR AMERBELLE CORPORATION, VERNON CONNECTICUT, PREPARED BY GARDNER & PETERSON ASSOCIATES, DATED 3–17–95, REVISED 5–17–95, SCALE 1"=40', PROJECT NO. 9282 B.
3. BOUNDARY & TOPOGRAPHIC SURVEY TITLED "RETAIL STORE" PREPARED FOR N.E. RETAIL LEASING AND MANAGEMENT CO., LLC. BY DESIGN PROFESSIONALS, DATED 09–30–13, SCALE 1"=20', PROJECT NO. 3243.

SURVEY NOTES:

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300b–1 THROUGH 20–300b–20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

   THE TYPE OF SURVEY PERFORMED IS AN EASEMENT SURVEY. BOUNDARY DETERMINATION IS BASED ON A DEPENDENT RESURVEY. THIS PLAN CONFORMS TO HORIZONTAL ACCURACY CLASS A–2

   THE INTENT OF THIS SURVEY IS TO DEPICT THE PROPOSED ENVIRONMENTAL LAND USE RESTRICTION AREAS IN RELATION TO THE EXISTING PROPERTY BOUNDARIES OF #40 BROOKLYN EAST MAIN, LLC AND THE IMPROVEMENTS LOCATED THEREON.

2. HORIZONTAL CONTROL IS BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83).

Metes and Bounds Description for 40 Brooklyn Street, Vernon, CT.

A certain piece or parcel of land situated in the Town of Vernon, Tolland County, Connecticut, now or formerly owned by Brooklyn East Main LLC recorded in Volume 2443, Page 76 of the Land Records of the Town of Vernon, being more particularly described by metes and bounds as follows:

Commencing at a Connecticut D.O.T. Highway Monument found at the intersection of the easterly street line of Court Street with the south street line of East Main Street, Connecticut State Highway Route 74;

Thence N79°06'51"E, running easterly along the south street line of East Main Street, a distance of 164.28' to a Connecticut D.O.T. Highway Monument found on the common line between said herein described parcel and that certain parcel of land now or formerly owned by Rockville East Main Corporation, A.K.A Anocoil Corporation, recorded in Volume 1702, Page 203 of the Land Records of the Town of Vernon. Said D.O.T monument being the Point of Beginning of the herein described parcel of land;

Thence, along the south street line of East Main street, the following three courses and distances:

N10°47'27"W, a distance of 22.03' to a point;

N78°17'06"E, a distance of 162.86' to a point, and

N78°04'06"E, a distance of 143.60' to a point;

Thence departing the south street line of East Main Street, along the common line between said herein described parcel and that certain parcel of land now or formerly owned by Daniels Management Inc. and recorded in Volume 372, Page 286 of the Land Records of the Town of Vernon, the following ten courses and distances:

S13°33'54"E, a distance of 50.00' to a point,

N78°08'06"E, a distance of 19.57' to a point,

N11°55'54"W, a distance of 20.00' to a point,

N78°04'06"E, a distance of 93.60' to a point,

S05°33'54"E, a distance of 32.20' to a point,

N78°38'06"E, a distance of 79.10' to a point,

S75°03'54"E, a distance of 35.00' to a point,

S14°56'06"W, a distance of 11.90' to a point,

S75°03'54"E, a distance of 12.00' to a point, and

S16°30'06"W, a distance of 47.50' to a point being the common corner between said Daniels Management Inc. and that certain parcel of land now or formerly owned by the Town of Vernon and recorded in Volume 2379, Page 147 of the Land Records of the Town of Vernon;

Thence S57°15'06W, with the common line between said Town of Vernon parcel and the herein described parcel, a distance of 130.50' to a point;

Thence S08°46'32"W, with the common line between that certain parcel of land now or formerly owned by the Town of Vernon and recorded in Volume 1023, Page 176 of the Land Records of the Town of Vernon, a distance of 230.21' to a point in the north street line of Brooklyn Street;

Thence along the common line between said herein described parcel and the north street line of Brooklyn Street the following two courses and distances:

S79°41'06"W, a distance of 144.20' to a point, and

S79°26'57"W, a distance of 344.23' to a point at the intersection of the north street line of Brooklyn Street with the East street line of Court Street;

Thence N20°10'38"W, with the common line between said herein described parcel and the east street line of Court Street, a distance of 125.37' to the most southwesterly corner of said Rockville East Main Corporation parcel;

Thence running the east street line of Court Street, along the common line between said herein described parcel and said Rockville East Main Corporation parcel, the following seven courses and distances:

N54°07'09"E, a distance of 83.85' to a point'

N66°59'06"E, a distance of 40.07' to a point,

N65°32'36"E, a distance of 79.65' to a point,

N78°16'28"E, a distance of 82.00' to a point,

N11°34'29"W, a distance of 52.79' to a point,

S82°11'31"W, a distance of 80.00' to a point, and

N10°47'29"W, a distance of 123.05' to the Point and Place of Beginning and containing 4.18 Acres of land.

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP SHOULD NOT BE CONSIDERED AN ORIGINAL SIGNED AND SEALED SURVEY UNLESS IT BEARS THE EMBOSSED SEAL OR THE DIGITALLY ENCRYPTED ELECTRONIC SIGNATURE OF THE LICENSED LAND SURVEYOR BELOW.

MICHAEL L EARLEY PE LS — LICENSE # 70224

SCALE:
HORZ.: 1" = 30'
VERT.:
DATUM:
HORZ.: NAD 83
VERT.:
30 15 0 30
GRAPHIC SCALE

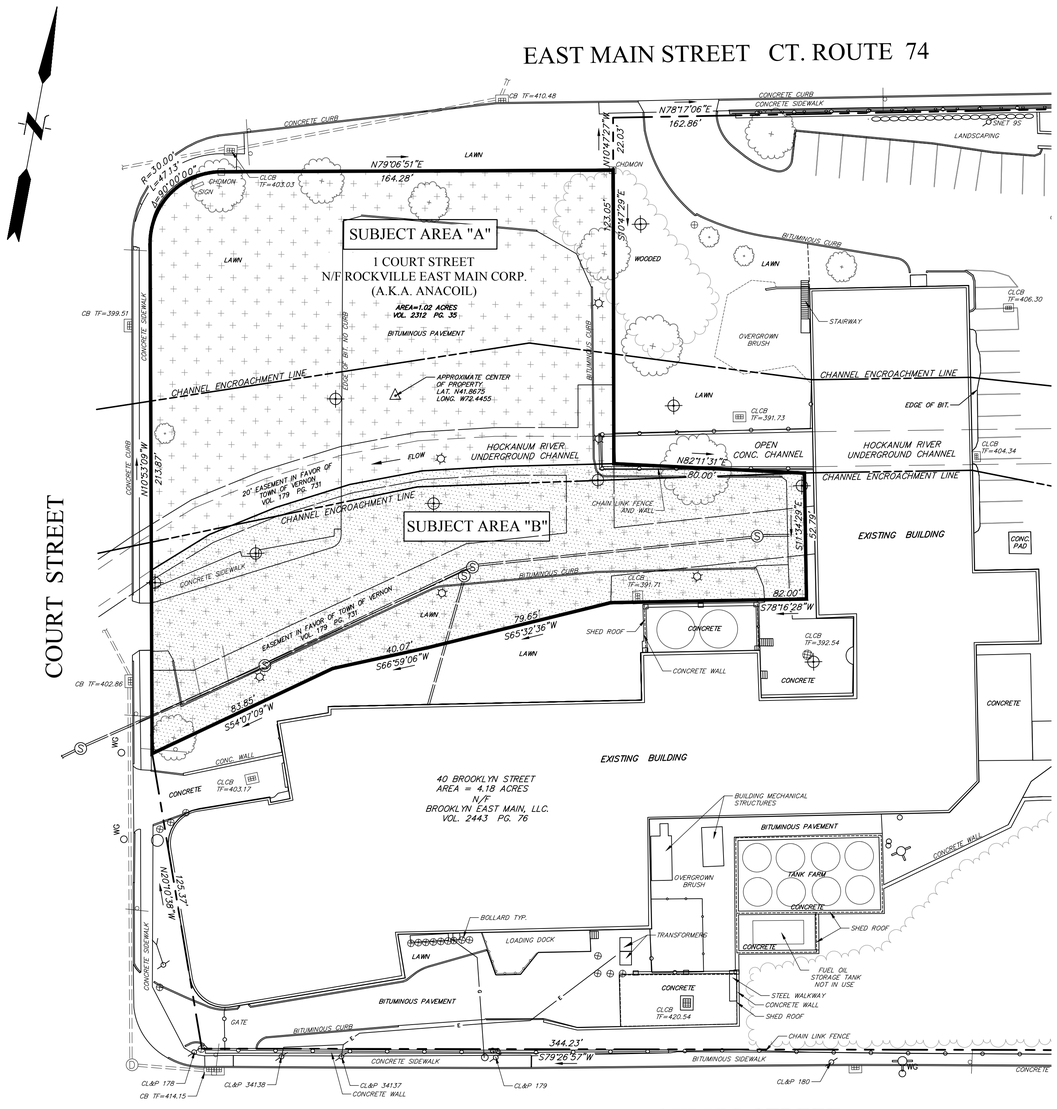
FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

EASEMENT MAP
EXHIBIT C OF THE DECLARATION OF ENVIRONMENTAL LAND USE RESTRICTION AND GRANT OF EASEMENT
BROOKLYN EAST MAIN, LLC
40 BROOKLYN STREET VERNON, CONNECTICUT

PROJ. No.: 2001454.R20
DATE: 10/20/2017

VE-01

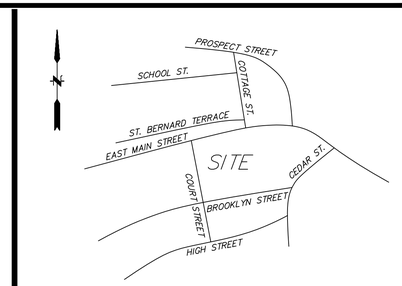
File Path: H:\DWG\P2001454\R20\Survey\Temp\Plan\2001454R20_SRV.dwg Layout: VE-01 Plotted: Mon, June 18, 2018 - 8:02 AM User: keilkowski
Plotter: DWG TO PDF (MERGE).PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



BROOKLYN STREET

LEGEND

SANITARY MANHOLE	WATER VALVE	PROPERTY LINE
STORM MANHOLE	FIRE HYDRANT	EASEMENT LINE
ELECTRIC MANHOLE	UTILITY POLE	EDGE OF WATER
TELEPHONE MANHOLE	GUY WIRE	CURB
CATCH BASIN	BOLLARD	TREELINE
FLAT TOP CATCHBASIN	SIGN	STONE WALL
EXISTING DRILL HOLE	GAS GATE	STREAM CHANNEL ENCROACHMENT QUEEN
EXISTING MONUMENT	WELL	
MONITOR WELL	PEDESTRIAN WALK SIGNAL	
	LIGHT	



KEY MAP - N.T.S.

ELUR SUBJECT AREA DEFINITIONS

ELUR SUBJECT A – RESIDENTIAL USE PROHIBITED

ELUR SUBJECT AREA B – DISTURBANCE OF INACCESSIBLE SOIL IS PROHIBITED

Metes and Bounds Description for 1 Court Street, Vernon, CT.

A certain piece or parcel of land situated in the Town of Vernon, Tolland County, Connecticut, now or formerly owned by Rockville East Main Corporation, A.K.A. Anocoil Corporation, and recorded in Volume 1702, Page 203 of the Land Records of the Town of Vernon, being more particularly described by metes and bounds as follows:

Beginning at a Connecticut D.O.T. Highway Monument found at the intersection of the easterly street line of Court Street with the south street line of East Main Street, Connecticut State Highway Route 74, said monument being the most northwesterly corner and the Point of Beginning of the herein described parcel of land;

Thence N79°06'51"E, running easterly along the south street line of East Main Street, a distance of 164.28' to a Connecticut D.O.T. Highway Monument found on the common line between said herein described parcel and that certain parcel of land now or formerly owned by Brooklyn East Main, LLC. recorded in Volume 2443, Page 76 of the Land Records of the Town of Vernon;

Thence, along the common line between said herein described parcel and said Brooklyn East Main, LLC. parcel, the following courses and distances:

S10°47'29"E, a distance of 123.05' to a point,

N82°11'31"E, a distance of 80.00' to a point,

S11°34'29"E, a distance of 52.79' to a point for the most southeasterly corner of the herein described parcel,

S78°16'28"W, a distance of 82.00' to a point,

S65°32'36"W, a distance of 79.65' to a point,

S66°59'06"W, a distance of 40.07' to a point, and

S54°07'09"W, a distance of 83.85' to a point in the east street line of said Court Street and being the most southwesterly corner of the herein described parcel;

Thence N10°53'09"W, along said street line of Court Street a distance of 213.87' to a point of curvature;

Thence continuing along said street line of Court Street, along a curve to the right having a Δ=90°00'00", a radius of 30.00' and an arc length of 47.13' to the Point and Place of Beginning and containing 1.02 Acres of land.

ZONING INFORMATION
GENERAL REQUIREMENTS FOR HISTORIC DISTRICT–INDUSTRIAL ZONE

MIN. LOT AREA	1 ACRE
MIN. LOT WIDTH	160 FEET
MIN. FRONT YARD	35 FEET
ONE SIDE YARD MIN.	15 FEET
REAR YARD MIN.	30 FEET
MINIMUM FLOOR AREA	10 PERCENT OF LAND AREA

MAP REFERENCES:

1. "PLAN PREPARED FOR ANO–COIL CORPORATION" EAST MAIN, COURT & BROOKLYN STREETS, PREPARED BY FUSS & O'NEILL, INC. DATED 4–16–85, REVISED 2–4–87, SCALE 1"=20', PROJECT NO. 85–87A.
2. "PLAN OF LAND PREPARED FOR AMERBELLE CORPORATION, VERNON CONNECTICUT", PREPARED BY GARDNER & PETERSON ASSOCIATES, DATED 3–17–95, REVISED 5–17–95, SCALE 1"=40', PROJECT NO. 9282 B.
3. BOUNDARY & TOPOGRAPHIC SURVEY TITLED "RETAIL STORE" PREPARED FOR N.E. RETAIL LEASING AND MANAGEMENT CO., LLC. BY DESIGN PROFESSIONALS, DATED 09–30–13, SCALE 1"=20', PROJECT NO. 3243.

UNDERGROUND UTILITY NOTE:

THE UNDERGROUND UTILITIES DEPICTED HEREON ARE BASED ON FIELD LOCATION OF VISIBLE FEATURES, MAPS AND PLANS OF RECORD, UTILITY MAPPING OR OTHER SOURCES OF INFORMATION. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES DECLARE THAT THEY ARE DEPICTED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.

NOTES:

1. OWNER OF PROPERTY IS ROCKVILLE EAST MAIN CORPORATION AREA OF PROPERTY IS 1.02 ACRES.
2. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF EARTH MOVING WORK, BUILDING CONSTRUCTION OR BUILDING ADDITIONS OBSERVED.
3. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR REPAIRS OBSERVED.
4. AT THE TIME OF THE SURVEY THERE WAS NO EVIDENCE OF UNRECORDED EASEMENTS OBSERVED.
5. NO BOUNDARY LINE DISCREPANCIES EXIST WITH REGARD TO THE ELUR SUBJECT AREAS.
6. PROPERTY ACCESS IS ALONG COURT STREET A PUBLIC R.O.W.
7. PROPERTY FALLS WITHIN THE LIMITS OF A FLOOD HAZARD ZONE "AE" AS DEPICTED ON FLOOD INSURANCE RATE MAP TOWN OF VERNON CONNECTICUT, TOLLAND COUNTY COMMUNITY PANEL NUMBER 0901.31 0005 C EFFECTIVE ON 08/09/1999.
8. ALL RESTRICTIVE COVENANTS, CONDITIONS, RESERVATIONS, OBLIGATIONS, DRAINAGE, SEWER, CONDUIT FOR THE HOCKANUM RIVER, EASEMENTS AND AGREEMENTS AS SET FORTH IN DEED DATED MAY 22, 1968 AND RECORDED MAY 2, 1969 IN VOLUME 179 AT PAGE 731 WERE RELINQUISHED AND EXTINGUISHED BY A QUIT CLAIM RELEASE DEED DATED SEPTEMBER 20, 2013 AND RECORDED SEPTEMBER 23, 2013 IN VOLUME 2312 AT PAGE 35.

SURVEY NOTES:

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20–300b–1 THROUGH 20–300b–20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS PREPARED AND ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

   THE TYPE OF SURVEY PERFORMED IS AN EASEMENT SURVEY.
   BOUNDARY DETERMINATION IS BASED ON A DEPENDENT RESURVEY.
   THIS PLAN CONFORMS TO HORIZONTAL ACCURACY CLASS A–2

   THE INTENT OF THIS SURVEY IS TO DEPICT THE PROPOSED ENVIRONMENTAL LAND USE RESTRICTION AREAS IN RELATION TO THE EXISTING PROPERTY BOUNDARIES OF #1 COURT STREET AND THE IMPROVEMENTS LOCATED THEREON.

2. HORIZONTAL CONTROL IS BASED ON NORTH AMERICAN DATUM OF 1983 (NAD 83).

No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

SEAL

SEAL

TO MY KNOWLEDGE AND BELIEF, THIS MAP IS SUBSTANTIALLY CORRECT AS NOTED HEREON. THIS MAP SHOULD NOT BE CONSIDERED AN ORIGINAL SIGNED AND SEALED SURVEY UNLESS IT BEARS A LIVE EMBOSSED SEAL OR THE DIGITALLY ENCRYPTED ELECTRONIC SIGNATURE OF THE LAND SURVEYOR BELOW.

MICHAEL L EARLEY PE LS — LICENSE # 70224

SCALE:
HORZ.: 1" = 30'
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DATUM:
HORZ.: NAD 83
VERT.:
30 15 0 30
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
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EASEMENT MAP
EXHIBIT C OF THE DECLARATION OF ENVIRONMENTAL LAND USE RESTRICTION AND GRANT OF EASEMENT
ROCKVILLE EAST MAIN CORPORATION
1 COURT STREET VERNON, CONNECTICUT

PROJ. No.: 2001454.R20
DATE: 10/20/2017

VE-02

File Path: H:\DWG\P2001\1454\R20\Survey\Temp\Plan\2001454R30_SRV.dwg Layout: VE-02 Plotted: Mon, June 18, 2018 - 8:01 AM User: kslikowski
MS VIEW: LAYER STATE:
Plotter: DWG TO PDF (MERGE).PC3 CTB File: FO.STB

FUSS & O'NEILL

Appendix B

DEEP Approvals

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

December 20, 2016

Howard Fromson
Chairman and CEO
Rockville East Main Corporation
1 Gold Street, Apt 14C
Hartford, CT 06103

RE: Acknowledgement of Receipt
of complete Form III

Dear Mr. Fromson:

I am writing to acknowledge receipt of a Form III (Business Only), fee payment in the amount of $3,000.00 and Environmental Condition Assessment Form (ECAF) received on April 7, 2016. Page 1 of the Form III was amended and resubmitted on December 16, 2016. These documents were submitted pursuant to Connecticut General Statutes (CGS) §22a-134 (a-e) regarding the March 31, 2016 sale of assets involving an establishment located at 40 Brooklyn Street and 1 Court Street in Rockville, Connecticut, now or formerly known as Anocoil Corporation. REM ID No. 12734 has been assigned to this filing and should be used on all future correspondence.

The Property Transfer Law now provides for automatic delegation to a licensed environmental professional (LEP) to oversee the investigation of the parcel and verify that the establishment has been remediated in accordance with the State Remediation Standard Regulations, §22a-133k-1 through 3 (RSRs). This delegation is automatic unless within 75 days of the date of this letter, you are notified in writing that the Commissioner's review and approval of the investigation and remediation is required. Although the Form III is considered complete, the ECAF may still be under technical review and you may be required to provide additional information (i.e., receptor survey, well monitoring analyses, etc.) in order for the Commissioner to determine if the Commissioner's oversight of the remediation activities is necessary.

In accordance with CGS §22a-134a(g)(1), you must:

1. Submit to the Commissioner within 75 days of the date of this letter, a schedule for the investigation of the parcel and remediation of the establishment. The schedule shall include the name of the licensed environmental professional that will be retained to oversee such activities at the establishment, and shall provide that you (as certifying party) will take the following actions.

2. Investigate the parcel in accordance with prevailing standards and guidelines, and the investigation will be completed within 2 years of the date of this letter.

3. Submit to the Commissioner within 2 years of the date of this letter the final investigation report, approved in writing by an LEP. The "Completion of Investigation Transmittal Form" [1] shall be used to submit the required documentation to the Commissioner.

4. Post public notice of remediation prior to the initiation of remediation, in accordance with CGS §22a-134a(i). Since a forty five (45) day comment period is required pursuant to the RSRs (regulations at 22a-133k-1(d)(2)), the public notice of remediation should be published far enough in advance of the submittal of the Remedial Action Plan (RAP) to allow adequate time for any comments on the proposed remediation and any response to such comments to be incorporated into the Remedial Action

Plan. Submit a copy of the public notice to DEEP immediately following publication of said notice.

5. Initiate remediation of the establishment within 3 years of the date of this letter. Submit to the Commissioner within 3 years of the date of this letter A Remedial Action Plan, approved in writing by an LEP. The "Remedial Action Plan Transmittal Form" shall be used to submit the required RAP to the Commissioner.

6. Submit annual progress reports concerning the remediation and monitoring of the establishment to the Commissioner on an annual basis starting with the fourth year from the date of this letter and every 12 months thereafter. Such annual progress reports must be detailed regarding remediation activities conducted within the previous 12 months. Any information indicating risks to human health or the environment may be higher than previously known must be reported.

7. Achieve the RSRs sufficient to support a final or interim verification by an LEP within 8 years from the date of this letter. Such final or interim verification by an LEP shall be submitted to the Commissioner and shall be on a form prescribed by the Commissioner.

Please note, for sites with TCE in soil or groundwater, it is strongly recommended that you and your LEP review the guidance "Trichloroethylene (TCE) Indoor Air Guidance to Protect Building Occupants from Developmental Risk" published by the Department of Public Health and the Department of Energy and Environmental Protection (DEEP), and take action as may be appropriate. Should there be any change in the selection of the licensed environmental professional, the DEEP must be notified in writing within 30 days.

Unless an alternative schedule has been approved in writing by the Commissioner, you shall investigate the parcel and remediate the establishment in accordance with the Property Transfer law. When remediation of the entire establishment is complete, you, as the certifying party, shall obtain and submit to the Commissioner a final verification by an LEP.

You should note that pursuant to CGS §22a-134a(h)(1), as amended, the Commissioner may determine at any time that the Commissioner's review and written approval of the investigation and remediation at the parcel is necessary. Nothing in this determination shall affect the authority of the Commissioner under any other statute or regulation, including, but not limited to, any authority to issue an order to any party associated with the transfer, to institute any other proceeding, or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law.

If at any time the Commissioner determines that the actions at the parcel have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution. In addition, nothing in this letter shall relieve any person of his or her obligations under applicable federal, state and local law.

Please direct your schedule, all future correspondence and any questions pertaining to this matter to Robert Robinson at (860) 424-3775.

Sincerely,

Kim Maiorano
Remediation Division
Bureau of Water Protection and Land Reuse

cc:Mark Sussman
Brent Henebry
Daniel Munroe

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

December 20, 2016

Howard Fromson
Chairman and CEO
Rockville East Main Corporation
1 Gold Street, Apt 14C
Hartford, CT 06103

RE: Acknowledgement of Receipt
of complete Form III

Dear Mr. Fromson:

I am writing to acknowledge receipt of a Form III (Real Estate), fee payment in the amount of $3,000.00 and Environmental Condition Assessment Form (ECAF) received on April 7, 2016. Page 1 of the Form III was amended and resubmitted on December 16, 2016. These documents were submitted pursuant to Connecticut General Statutes (CGS) §22a-134 (a-e) regarding the March 31, 2016 transfer of a parcel located at 40 Brooklyn Street in Rockville, Connecticut. REM ID No. 12729 has been assigned to this filing and should be used on all future correspondence.

The Property Transfer Law now provides for automatic delegation to a licensed environmental professional (LEP) to oversee the investigation of the parcel and verify that the establishment has been remediated in accordance with the State Remediation Standard Regulations, §22a-133k-1 through 3 (RSRs). This delegation is automatic unless within 75 days of the date of this letter, you are notified in writing that the Commissioner's review and approval of the investigation and remediation is required. Although the Form III is considered complete, the ECAF may still be under technical review and you may be required to provide additional information (i.e., receptor survey, well monitoring analyses, etc.) in order for the Commissioner to determine if the Commissioner's oversight of the remediation activities is necessary.

In accordance with CGS §22a-134a(g)(1), you must:

1. Submit to the Commissioner within 75 days of the date of this letter, a schedule for the investigation of the parcel and remediation of the establishment. The schedule shall include the name of the licensed environmental professional that will be retained to oversee such activities at the establishment, and shall provide that you (as certifying party) will take the following actions.

2. Investigate the parcel in accordance with prevailing standards and guidelines, and the investigation will be completed within 2 years of the date of this letter.

3. Submit to the Commissioner within 2 years of the date of this letter the final investigation report, approved in writing by an LEP. The "Completion of Investigation Transmittal Form" [1] shall be used to submit the required documentation to the Commissioner.

4. Post public notice of remediation prior to the initiation of remediation, in accordance with CGS §22a-134a(i). Since a forty five (45) day comment period is required pursuant to the RSRs (regulations at 22a-133k-1(d)(2)), the public notice of remediation should be published far enough in advance of the submittal of the Remedial Action Plan (RAP) to allow adequate time for any comments on the proposed remediation and any response to such comments to be incorporated into the Remedial Action Plan. Submit a copy of the public notice to DEEP immediately following publication of said notice.

5. Initiate remediation of the establishment within 3 years of the date of this letter. Submit to the Commissioner within 3 years of the date of this letter A Remedial Action Plan, approved in writing by an LEP. The "Remedial Action Plan Transmittal Form" shall be used to submit the required RAP to the Commissioner.

6. Submit annual progress reports concerning the remediation and monitoring of the establishment to the Commissioner on an annual basis starting with the fourth year from the date of this letter and every 12 months thereafter. Such annual progress reports must be detailed regarding remediation activities conducted within the previous 12 months. Any information indicating risks to human health or the environment may be higher than previously known must be reported.

7. Achieve the RSRs sufficient to support a final or interim verification by an LEP within 8 years from the date of this letter. Such final or interim verification by an LEP shall be submitted to the Commissioner and shall be on a form prescribed by the Commissioner.

Please note, for sites with TCE in soil or groundwater, it is strongly recommended that you and your LEP review the guidance "Trichloroethylene (TCE) Indoor Air Guidance to Protect Building Occupants from Developmental Risk" published by the Department of Public Health and the Department of Energy and Environmental Protection (DEEP), and take action as may be appropriate. Should there be any change in the selection of the licensed environmental professional, the DEEP must be notified in writing within 30 days.

Unless an alternative schedule has been approved in writing by the Commissioner, you shall investigate the parcel and remediate the establishment in accordance with the Property Transfer law. When remediation of the entire establishment is complete, you, as the certifying party, shall obtain and submit to the Commissioner a final verification by an LEP.

You should note that pursuant to CGS §22a-134a(h)(1), as amended, the Commissioner may determine at any time that the Commissioner's review and written approval of the investigation and remediation at the parcel is necessary. Nothing in this determination shall affect the authority of the Commissioner under any other statute or regulation, including, but not limited to, any authority to issue an order to any party associated with the transfer, to institute any other proceeding, or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law.

If at any time the Commissioner determines that the actions at the parcel have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution. In addition, nothing in this letter shall relieve any person of his or her obligations under applicable federal, state and local law.

Please direct your schedule, all future correspondence and any questions pertaining to this matter to Robert Robinson at (860) 424-3775.

Sincerely,

Kim Maiorano
Remediation Division
Bureau of Water Protection and Land Reuse

cc:Mark Sussman
Brent Henebry

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

July 31, 2017

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

APPROVAL

Mr. Kevin L. Vanderveer
Fuss & O'Neill
146 Hartford Road
Manchester, CT 06040

Re: Request for Alternative Criteria
Former Anocoil Facility, 400 Brooklyn Street and 1 Court Street, Vernon
REM ID # 3071, 12729, 12734

Dear Mr. Vanderveer,

On April 4, 2017, the Remediation Division of the Bureau of Water Protection and Land Reuse (the Department) received your request for the Commissioner's approval to use site specific alternative cleanup criteria at the above referenced site, in accordance with the Remediation Standard Regulations, sections 22a-133k-1 through 22a-133k-3 (RSRs) of the Regulations of Connecticut State Agencies.

Based on the review of the information contained in your request, the Commissioner hereby approves for use only at this site, the criteria listed below.

- Benzo(a)pyrene-Industrial/Commercial Direct Exposure Criterion-3 milligrams per kilogram

Nothing in this determination shall affect the authority of the Commissioner under any other statute or regulation, including, but not limited to, any authority to institute any proceeding, or take any other action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law, if any. If at any time the Commissioner determines that the actions at the parcel have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution.

In addition, nothing in this determination shall relieve any person of his or her obligations under applicable federal, state and local law.

If you have any questions regarding this determination, please feel free to contact Craig Bobrowiecki of my staff at (860) 424-3798.

Sincerely,

Patrick F. Bowe, Director
Remediation Division
Bureau of Water Protection and Land Reuse

PFB:cjb
cc: Craig Bobrowiecki DEEP
Tom O'Connor DEEP

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

ELECTRONIC COPY
Sent by Electronic Mail (Email) on June 8, 2018

To:
Howard A. Fromson
Rockville East Main Corporation
Email: benderfromson@comcast.net

Mark Sussman
Murtha Cullina LLP
Email: msussman@murthalaw.com

Re: Environmental Land Use Restriction
1 Court Street
Vernon, CT

The Bureau of Water Protection and Land Reuse ("Department") has reviewed, and is forwarding the Environmental Land Use Restriction (ELUR) for the above referenced property ("Property") (saved as an electronic document attached).

Within sixty (60) days of the date of this letter, the Property Owner or duly designated agent should sign (and notarize) the ELUR **and** the Property Owner Affidavit (referenced in the ELUR Application, electronic document also attached). Return the signed, paper copies to the Department at the address below. Also, please include the final full-size copy of the ELUR Survey.

If the signed ELUR is not submitted to the Department within the timeframe specified and an extension is not requested and acknowledged by the Department, the Department may deny the ELUR Application.

Please submit to:

Connecticut Department of Energy and Environmental Protection
Environmental Land Use Restriction Coordinator
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford, Connecticut 06106-5127
Attention: Signed ELUR

Upon receipt, the ELUR, and if applicable the subordination agreement waiver approval, will be signed by the duly designated agent of the Commissioner. The package will be returned to you to record on the municipal land records.

The following information is provided to assist with planning for the activities associated with **recording** the ELUR:

1. Within seven (7) days of receiving the fully executed ELUR it is required to simultaneously record on the land records of the municipality:

    - The approved ELUR and any associated exhibits (including the final, signed ELUR Survey);

- Documents which are necessary to demonstrate that each person holding an interest in the land, or any part thereof has irrevocably subordinated such interest to the ELUR; and

- The Department's approval of a waiver from the requirement to obtain subordination agreements for interests which are so minor as to be unaffected by the ELUR, as applicable.

2. Within seven (7) days of recording the ELUR on the land records of the municipality, a certificate of title and copy of the ELUR as recorded must be submitted to the Department. The certificate of title must certify that each interest in the land has been irrevocably subordinated to the ELUR, or the Department has waived the requirement to obtain subordination agreements for interests in the land that are so minor as to be unaffected by the ELUR.

3. In addition, copies of the ELUR must be sent by certified mail, return receipt requested, to: (1) the chief administrative officer of the municipality where the Property is located, (2) the chairman of the planning, zoning, or planning and zoning commission for the municipality where the Property is located, (3) the local Director of Health and (4) any person who submitted comments on the ELUR during the public comment period. Please send copies of such letters and completed return receipts to the Department within thirty (30) days of recording the ELUR.

The Department's review was limited to the review of the draft ELUR documents, and was not intended to address potential technical issues related to the investigation and remediation of the site. Pursuant to Section 22a-133v(g) of the Connecticut General Statutes, the Department may conduct an audit of the investigation and remediation of the site subsequent to the verification by the licensed environmental professional. The results of any such future audit may if necessary, require modification of the ELUR.

If you have any questions, please contact Amanda Killeen of my staff at (860) 424-3351 or at amanda.killeen@ct.gov.

Sincerely,

Jan M. Czeczotka

Jan Czeczotka
Assistant Director
Remediation Division
Bureau of Water Protection and Land Reuse

Connecticut Department of
ENERGY &
ENVIRONMENTAL
PROTECTION

79 Elm Street • Hartford, CT 06106-5127 www.ct.gov/deep Affirmative Action/Equal Opportunity Employer

ELECTRONIC COPY
Sent by Electronic Mail (Email) on June 8, 2018

To:
Howard A. Fromson
Brooklyn East Main, LLC
Email: benderfromson@comcast.net

Mark Sussman
Murtha Cullina LLP
Email: msussman@murthalaw.com

Re: Environmental Land Use Restriction
40 Brooklyn Street
Vernon, CT

The Bureau of Water Protection and Land Reuse ("Department") has reviewed, and is forwarding the Environmental Land Use Restriction (ELUR) for the above referenced property ("Property") (saved as an electronic document attached).

Within sixty (60) days of the date of this letter, the Property Owner or duly designated agent should sign (and notarize) the ELUR **and** the Property Owner Affidavit (referenced in the ELUR Application, electronic document also attached). Return the signed, paper copies to the Department at the address below. Also, please include the final full-size copy of the ELUR Survey.

If the signed ELUR is not submitted to the Department within the timeframe specified and an extension is not requested and acknowledged by the Department, the Department may deny the ELUR Application.

Please submit to:

Connecticut Department of Energy and Environmental Protection
Environmental Land Use Restriction Coordinator
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street
Hartford, Connecticut 06106-5127
Attention: Signed ELUR

Upon receipt, the ELUR, and if applicable the subordination agreement waiver approval, will be signed by the duly designated agent of the Commissioner. The package will be returned to you to record on the municipal land records.

The following information is provided to assist with planning for the activities associated with **recording** the ELUR:

1. Within seven (7) days of receiving the fully executed ELUR it is required to simultaneously record on the land records of the municipality:

    - The approved ELUR and any associated exhibits (including the final, signed ELUR Survey);

- Documents which are necessary to demonstrate that each person holding an interest in the land, or any part thereof has irrevocably subordinated such interest to the ELUR; and

- The Department's approval of a waiver from the requirement to obtain subordination agreements for interests which are so minor as to be unaffected by the ELUR, as applicable.

2. Within seven (7) days of recording the ELUR on the land records of the municipality, a certificate of title and copy of the ELUR as recorded must be submitted to the Department. The certificate of title must certify that each interest in the land has been irrevocably subordinated to the ELUR, or the Department has waived the requirement to obtain subordination agreements for interests in the land that are so minor as to be unaffected by the ELUR.

3. In addition, copies of the ELUR must be sent by certified mail, return receipt requested, to: (1) the chief administrative officer of the municipality where the Property is located, (2) the chairman of the planning, zoning, or planning and zoning commission for the municipality where the Property is located, (3) the local Director of Health and (4) any person who submitted comments on the ELUR during the public comment period. Please send copies of such letters and completed return receipts to the Department within thirty (30) days of recording the ELUR.

The Department's review was limited to the review of the draft ELUR documents, and was not intended to address potential technical issues related to the investigation and remediation of the site. Pursuant to Section 22a-133v(g) of the Connecticut General Statutes, the Department may conduct an audit of the investigation and remediation of the site subsequent to the verification by the licensed environmental professional. The results of any such future audit may if necessary, require modification of the ELUR.

If you have any questions, please contact Amanda Killeen of my staff at (860) 424-3351 or at amanda.killeen@ct.gov.

Sincerely,

Jan M. Czeczotka

Jan Czeczotka
Assistant Director
Remediation Division
Bureau of Water Protection and Land Reuse

Department of Energy & Environmental Protection
Bureau of Water Protection and Land Reuse
Remediation Division
79 Elm Street, Hartford, CT 06106-5127
(860) 424-3705 www.ct.gov/deep/remediation

DEEP USE ONLY (Date Stamp)
WATER PROTECTION AND LAND REUSE
JUN 2 1 2018
REMEDIATION DIVISION

REQUEST FOR APPROVAL OF CRITERIA FOR ADDITIONAL POLLUTING SUBSTANCES AND CERTAIN ALTERNATIVE CRITERIA

In accordance with Sections 22a-133k-1 through k-3 of the Regulations of Connecticut State Agencies

This form is prescribed by the Commissioner and must be completed when requesting the Commissioner's approval to use site-specific cleanup criteria for Additional Polluting Substances and certain Alternative Criteria. For use of the criteria listed below for the site identified in this form, the Commissioner's approval is required pursuant to the Remediation Standard Regulations, Sections 22a-133k-1 through 22a-133k-3 (RSRs) of the Regulations of Connecticut State Agencies (RCSA).

If this request is for an anticipated Property Transfer Act Form I, II, or IV filing, the approval will be conditional on the submittal of such filing within one year of the date of this approval. After such time, if such filing was not submitted, this approval automatically expires.

In all other cases, the approval expires eight years from the date approved unless otherwise extended by the Commissioner in writing, or unless a Verification, Interim Verification, or Final Remedial Action Report (in the case of DEEP-lead or Voluntary Remediation under CGS Section 22a-133y only) is submitted within said timeframe.

All sections of this form must be completed, as applicable.

Check the box to indicate the program for which this form is being submitted:

- ☒ Connecticut General Statutes (CGS) section 22a-134a(a)-(e), Property Transfer Program
- ☐ CGS section 22a-133x, Voluntary Remediation Program
- ☐ CGS section 22a-133y, Voluntary Remediation Program
- ☐ Other (specify)

Site Identification

RemID# 12729

Name of Site: Former Anocoil Corporation

Street Address: 40 Brooklyn Street and 1 Court Street (aka 60 East Main Street)

City/Town: Vernon State: CT Zip Code: 6066-

Groundwater Classification: GB

Contact Information

Certifying Party (if Property Transfer): Rockville East Main Corporation ☐ N/A

Person submitting Request: Brent J. Henebry Title: Associate

Business Name: Fuss & O'Neill, Inc. E-mail Address: bhenebry@fando.com

Mailing Address: 146 Hartford Road

City/Town: Manchester State: CT Zip Code: 06040-

Business Phone: 860-646-2469 Ext. 5369 Fax: 860-533-5133

☐ Request to use the 2003 Draft Volatilization and Soil Vapor Criteria Tables C2 and C3, as revised in 2015.

"I hereby request approval, in accordance with Sections 22a-133k-2(b)(5), 22a-133k-2(c)(6), 22a-133k-3(h), 22a-133k-3(b)(3)(B), and/or 22a-133k-3(c)(4)(B) of the RCSA, to use the criteria selected in the table below for Additional Polluting Substances at the site identified above."

Check the box indicating the criteria for which approval is requested. Selection of criteria must correspond to the groundwater classification of the site. The criteria below are not valid and effective for any release or property until and unless DEEP issues a written approval for use at a specific property. DEEP may update these criteria at any time, so no one should rely on them until receipt from DEEP of a property-specific approval. These criteria are optional and any person may elect to apply for a different criterion for any additional polluting substance provided that adequate documentation to support such request is submitted to DEEP.

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Acenaphthene	1,000 ☒	2,500 ☒	8.4 ☐	84 ☒	13 ☐	110 ☐	83 ☐	690 ☐	420 ☐	150 ☒	30,500 ☐	50,000 ☐
Acetone										10,000 ☐		
Acetonitrile	340 ☐	1,000 ☐	0.70 ☐	7.0 ☐	14 ☐	140 ☐	24 ☐	240 ☐	35 ☐	10,000 ☐	37,100 ☐	50,000 ☐
Acrolein	34 ☐	1,000 ☐	0.20 ☐	2.0 ☐	0.003 ☐	0.035 ☐	0.008 ☐	0.081 ☐	10 ☐	30 ☐	4.0 ☐	50 ☐
Alachor										450 ☐		
Aldicarb										9.4 ☐		
Aldrin	0.04 ☐	0.34 ☐	0.002 ☐	0.01 ☐					0.05 ☐	0.05 ☐		
Aniline	110 ☐	1,000 ☐	0.20 ☐	1.2 ☐					6.1 ☐	41 ☐		
Atrazine										16 ☐		
Benzidine	0.20 ☐	0.20 ☐	0.20 ☐	1.0 ☐					5.0 ☐	5.0 ☐		
Benzo(g,h,i)perylene	8.4 ☒	78 ☒	1 ☐	1 ☒					0.48 ☐	150 ☒		
Benzoic acid	1,000 ☒	2,500 ☒	20 ☐	200 ☒					1,000 ☐	9,000 ☒		
Bis(2-chloroethoxy)methane	200 ☐	2,500 ☐	0.42 ☐	4.2 ☐					21 ☐	10,000 ☐		
Bromodichloromethane	18 ☐	170 ☐	0.02 ☐	0.21 ☐	0.002 ☐	0.046 ☐	0.012 ☐	0.31 ☐	1.0 ☐	510 ☐	1.1 ☐	35 ☐
Bromomethane	34 ☐	1,000 ☐	0.07 ☐	0.70 ☐	0.51 ☐	5.2 ☐	2 ☐	20 ☐	3.5 ☐	160 ☐	83 ☐	1,100 ☐
2-Butanone (MEK)										10,000 ☐		
Butylbenzene, n-	500 ☒	1,000 ☒	7.0 ☐	70 ☒	13 ☐	130 ☐	69 ☐	690 ☐	350 ☐	10,000 ☒	1,600 ☒	21,800 ☒
Butylbenzene, sec-	500 ☒	1,000 ☒	7.0 ☐	70 ☒	13 ☐	130 ☐	69 ☐	690 ☐	350 ☐	10,000 ☒	1,500 ☒	20,100 ☒
Butylbenzene, tert-	500 ☐	1,000 ☐	7.0 ☐	70 ☐	13 ☐	130 ☐	69 ☐	690 ☐	350 ☐	10,000 ☐	1,900 ☐	25,300 ☐

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Butylbenzyl phthlate										230 ☐		
Carbazole	31 ☐	290 ☐	0.20 ☐	1.0 ☐					5.0 ☐	53 ☐		
Carbon disulfide	500 ☒	1,000 ☒	0.80 ☐	8.0 ☒	27 ☐	48 ☐	83 ☐	150 ☐	40 ☐	150 ☒	2,100 ☒	5,200 ☒
Chlorodane, (total)[2]	0.49 ☐	2.2 ☐	0.066 ☐	0.066 ☐					0.30 ☐	0.3 ☐		
Chloroaniline, 4-	3.1 ☐	29 ☐	0.20 ☐	1.0 ☐					5.0 ☐	9.9 ☐		
Chloroethane	130 ☐	1,000 ☐	0.15 ☐	1.5 ☐	0.27 ☐	3.3 ☐	0.71 ☐	8.7 ☐	7.4 ☐	10,000 ☐	22 ☐	360 ☐
Chloromethane	180 ☒	1,000 ☒	0.36 ☐	3.6 ☒	1.70 ☐	18 ☐	3.6 ☐	36 ☐	18 ☐	10,000 ☒	130 ☒	1,800 ☒
Chloronaphthalene, 2-	500 ☐	1,000 ☐	11 ☐	110 ☐	17 ☐	100 ☐	110 ☐	690 ☐	560 ☐	10,000 ☐	27,300 ☐	50,000 ☐
Chlorophenol, 3-methyl-4	1,000 ☐	2,500 ☐	14 ☐	140 ☐					700 ☐	73 ☐		
Chlorophenol, 2-										420 ☐		
Chlorotoluene, 2-	500 ☐	1,000 ☐	2.8 ☐	28 ☐	6.1 ☐	62 ☐	32 ☐	320 ☐	140 ☐	10,000 ☐	2,100 ☐	28,300 ☐
Chlorotoluene, 4-	500 ☐	1,000 ☐	2.8 ☐	28 ☐	6.1 ☐	62 ☐	32 ☐	320 ☐	140 ☐	10,000 ☐	1,900 ☐	25,200 ☐
Chrysene	84 ☒	780 ☒	1 ☐	1 ☒					4.8 ☐	0.54 ☒		
Cyclohexane	500 ☐	1,000 ☐	20 ☐	200 ☐	110 ☐	200 ☐	380 ☐	690 ☐	1,000 ☐	2,800 ☐	1,100 ☐	2,800 ☐
D, 2,4-										1,700 ☐		
Dibenzo(a,h)anthracene	1.0 ☒	1 ☒	1 ☐	1 ☒					0.10 ☐	0.30 ☒		
Dibenzofuran	68 ☒	1,000 ☒	0.20 ☐	1.4 ☒	0.20 ☐	2.1 ☐	1.4 ☐	14 ☐	7.0 ☐	40 ☒	460 ☐	5,800 ☐
Dibromo-3-chloropropane, 1.2-	0.09 ☐	0.82 ☐	0.005 ☐	0.04 ☐					0.20 ☐	1.1 ☐		
Dicamba	500 ☐	1,000 ☐	4.2 ☐	42 ☐					210 ☐	2,200 ☐		
Dichlorobenzidine, 3,3'-	1.4 ☐	13 ☐	0.20 ☐	1.0 ☐					5.0 ☐	5.0 ☐		
Dichlorobutene, 1,4-					0.0005 ☐	0.0005 ☐	0.0026 ☐	0.0027 ☐			0.5 ☐	0.5 ☐
Dichlorodifluromethane	500 ☐	1,000 ☐	7.0 ☐	70 ☐	8.0 ☐	81 ☐	39 ☐	400 ☐	350 ☐	10,000 ☐	53 ☐	720 ☐
Dichlorodiphenyl Trichloroethane, P,P'-(DDT) (total)[3]	1.8 ☐	17 ☐	0.003 ☐	0.02 ☐					0.10 ☐	0.05 ☐		

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Dichloroethane, 1,1-										4,100 ☐		
Dichloroethene, 1,2-										9,700 ☐		
Dichloroethene, cis 1,2-										6,200 ☐		
Dichloroethene, trans 1,2-										10,000 ☐		
Dichloroprop	240 ☐	1,000 ☐	0.50 ☐	5.0 ☐					25 ☐	120 ☐		
Dichloropropane, 1,2										150 ☐		
Diethyl phthalate	1,000 ☐	2,500 ☐	20 ☐	200 ☐					1,000 ☐	2,200 ☐		
Dimethyl phthalate	1,000 ☒	2,500 ☒	20 ☐	200 ☒					1,000 ☐	10,000 ☒		
Dimethylphenol, 2,4-	1,000 ☐	2,500 ☐	2.8 ☐	28 ☐					140 ☐	150 ☐		
Dinitrophenol, 2,4-	140 ☐	2,500 ☐	0.30 ☐	2.8 ☐					14 ☐	710 ☐		
Dinitophenol, 2-methyl-4,6-	20 ☐	610 ☐	0.30 ☐	2.0 ☐					10 ☐	10 ☐		
Dinitrotoluene, 2,4-	0.90 ☐	8.4 ☐	0.20 ☐	1.0 ☐					5.0 ☐	100 ☐		
Dinitrotoluene, 2,6-	0.9 ☐	8.4 ☐	0.2 ☐	1.0 ☐					5.0 ☐	46 ☐		
Dioxane, 1,4-	6.1 ☐	57 ☐	0.10 ☐	0.60 ☐	0.050 ☐	0.61 ☐	0.18 ☐	2.2 ☐	3.0 ☐	960 ☐		
1,2-Diphenylhydrazine	0.77 ☐	7.2 ☐	0.20 ☐	1.0 ☐					5.0 ☐	6.0 ☐		
Endosulfan (total)[4]	41 ☐	1,000 ☐	0.084 ☐	0.84 ☐					4.2 ☐	0.56 ☐		
Endrin (total)[5]	20 ☐	610 ☐	0.04 ☐	0.40 ☐					2.0 ☐	0.1 ☐		
Ethanol	1,000 ☐	2,500 ☐	20 ☐	200 ☐					1,000 ☐	10,000 ☐		
Ethyl acetate	500 ☐	1,000 ☐	20 ☐	200 ☐	100 ☐	190 ☐	380 ☐	690 ☐	1,000 ☐	10,000 ☐	50,000 ☐	50,000 ☐
Ethylene glycol	1,000 ☐	2,500 ☐	20 ☐	200 ☐					1,000 ☐	10,000 ☐		
Extractable Total Petroleum Hydrocarbons (ETPH)										250 ☐		
Formaldehyde	1,000 ☐	2,500 ☐	2.8 ☐	28 ☐					140 ☐	9,700 ☐		
Hexachlorobutadiene	130 ☐	1,200 ☐	0.2 ☐	1.5 ☐					7.4 ☐	10 ☐		

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Hexachlorocyclohexane, alpha-	0.34 ☐	3.2 ☐	0.002 ☐	0.01 ☐					0.05 ☐	0.11 ☐		
Hexachlorocyclohexane, beta-	0.34 ☐	3.2 ☐	0.002 ☐	0.01 ☐					0.05 ☐	0.11 ☐		
Hexachlorocyclohexane, delta-	0.34 ☐	3.2 ☐	0.002 ☐	0.01 ☐					0.05 ☐	0.11 ☐		
Hexachlorocyclopentadiene	410 ☐	1,000 ☐	0.84 ☐	8.4 ☐					42 ☐	0.70 ☐		
Hexane, n-	500 ☐	1,000 ☐	8.4 ☐	84 ☐	79 ☐	200 ☐	280 ☐	690 ☐	420 ☐	200 ☐	71 ☐	240 ☐
Hexanone-2	340 ☐	1,000 ☐	0.70 ☐	7.0 ☐	2.90 ☐	29 ☐	12 ☐	120 ☐	35 ☐	10,000 ☐	7,600 ☐	94,000 ☐
Indeno(1,2,3-c,d)pyrene	1.0 ☒	7.8 ☒	1 ☐	1 ☒					0.10 ☐	0.54 ☒		
Isophorone	640 ☐	2,500 ☐	0.74 ☐	7.4 ☐					37 ☐	9,200 ☐		
Isopropanol	1,000 ☐	2,500 ☐	46 ☐	460 ☐					2,300 ☐	10,000 ☐		
Isopropylbenzene (cumene)	500 ☒	1,000 ☒	0.50 ☐	5.0 ☒	6.0 ☐	11 ☐	30 ☐	54 ☐	25 ☐	210 ☒	900 ☒	2,200 ☒
Isopropyltoluene, 4- (cymene)	500 ☒	1,000 ☒	0.50 ☐	5.0 ☒	5.3 ☐	9.7 ☐	30 ☐	54 ☐	25 ☐	200 ☒	870 ☒	2,100 ☒
Lindane										0.11 ☐		
Methanol	1,000 ☐	2,500 ☐	20 ☐	200 ☐					1,000 ☐	3,300 ☐		
Methoxychlor										0.50 ☐		
Methyl methacrylate	500 ☐	1,000 ☐	20 ☐	200 ☐	6.8 ☐	68 ☐	28 ☐	280 ☐	980 ☐	10,000 ☐	6,800 ☐	87,600 ☐
Methylnaphthalene, 1-	21 ☐	200 ☐	0.20 ☐	1.0 ☐	0.019 ☐	0.24 ☐	0.11 ☐	1.4 ☐	5 ☐	61 ☐	20 ☐	320 ☐
Methylnaphthalene, 2-	270 ☒	1,000 ☒	0.56 ☐	5.6 ☒	0.95 ☐	9.7 ☐	5.5 ☐	57 ☐	28 ☐	62 ☒	1,000 ☐	13,100 ☐
Methylphenol, 2- (Cresol, o-)	1,000 ☐	2,500 ☐	2.8 ☐	28 ☐					140 ☐	670 ☐		
Methylphenol, 3- (Cresol, m-)	1,000 ☐	2,500 ☐	2.4 ☐	24 ☐					120 ☐	620 ☐		
Methylphenol, 4- (Cresol, p-)	1,000 ☐	2,500 ☐	2.8 ☐	28 ☐					140 ☐	560 ☐		
Methyl-tert butyl ether (MTBE)										10,000 ☐		
Naphthalene										210 ☒		
Nitroaniline, 2-	31 ☐	290 ☐	0.30 ☐	2.0 ☐					10 ☐	210 ☐		

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Nitroaniline, 3-	31 ☐	290 ☐	0.30 ☐	2.0 ☐					10 ☐	70 ☐		
Nitroaniline, 4-	31 ☐	290 ☐	0.30 ☐	2.0 ☐					10 ☐	1,200 ☐		
Nitrobenzene	4 ☐	41 ☐	0.20 ☐	1.0 ☐	0.005 ☐	0.056 ☐	0.023 ☐	0.28 ☐	5 ☐	2,300 ☐	51 ☐	750 ☐
Nitrophenol, 2-										560 ☐		
Nitrosodimethylamine, N-	0.20 ☐	0.36 ☐	0.20 ☐	1.0 ☐					5.0 ☐	90 ☐		
Nitrosodi-n-propylamine, N-	0.20 ☐	0.82 ☐	0.20 ☐	1.0 ☐					5.0 ☐	15 ☐		
Nitrosodiphenylamine, N-	130 ☐	1,200 ☐	0.20 ☐	1.4 ☐					7.1 ☐	180 ☐		
Pentachloronitrobenzene	68 ☐	2,000 ☐	0.14 ☐	1.4 ☐					7.0 ☐	25 ☐		
Pentachlorophenol										30 ☐		
Phenanthrene										14 ☒		
Propylbenzene, n-	500 ☒	1,000 ☒	1.0 ☐	10 ☒	7.4 ☐	14 ☐	36 ☐	67 ☐	50 ☐	10,000 ☒	1,200 ☒	2,900 ☒
Propylene glycol	1,000 ☐	2,500 ☐	20 ☐	200 ☐					1,000 ☐	10,000 ☐		
Pyridine	20 ☐	610 ☐	0.20 ☐	1.0 ☐	0.13 ☐	1.3 ☐	0.41 ☐	4.2 ☐	5.0 ☐	260 ☐	1,900 ☐	23,500 ☐
Styrene										320 ☒		
tert Butyl Alcohol (TBA) (Total Oxygenates)[6]	1,000 ☐	2,500 ☐	2.0 ☐	20 ☐					100 ☐	10,000 ☐		
Tetrachlorobenzene, 1,2,4,5-	20 ☐	610 ☐	0.1 ☐	1.0 ☐					5.0 ☐	11 ☐		
Tetrachloroethane, 1,1,1,2-										330 ☐		
Tetrahydrofuran	61 ☐	570 ☐	0.08 ☐	0.80 ☐	0.10 ☐	1.28 ☐	0.31 ☐	3.8 ☐	4 ☐	9,600 ☐	250 ☐	3,700 ☐
Trichloro-1,2,2-trifluoroethane, 1,1,2-	500 ☐	1,000 ☐	20 ☐	200 ☐	50 ☐	90 ☐	380 ☐	690 ☐	1,000 ☐	320 ☐	330 ☐	810 ☐
Trichlorobenzene, 1,2,4-	21 ☐	200 ☐	1.4 ☐	14 ☐	0.015 ☐	0.64 ☐	0.11 ☐	4.7 ☐	70 ☐	9.6 ☐	12 ☐	660 ☐
Trichlorofluoromethane	500 ☐	1,000 ☐	20 ☐	200 ☐	50 ☐	120 ☐	280 ☐	690 ☐	1,000 ☐	10,000 ☐	1,300 ☐	4,300 ☐
Trichlorophenol, 2,4,5-	1,000 ☐	2,500 ☐	14 ☐	140 ☐					700 ☐	28 ☐		
Trichlorophenol, 2,4,6-	56 ☐	520 ☐	0.20 ☐	1.0 ☐					5.0 ☐	49 ☐		

Substance	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/kg)	GB PMC (mg/kg)	RSVVC (ppmv)[1]	I/CSVVC (ppmv)[1]	RSVVC (mg/m^3)[1]	I/CSVVC (mg/m^3)[1]	GWPC (µg/L)	SWPC (µg/L)[1]	RGWVC (µg/L)[1]	I/CGWVC (µg/L)[1]
Trimethylbenzene, 1,2,4-	500 ☒	1,000 ☒	2.8 ☐	28 ☒	4.0 ☐	41 ☐	20 ☐	200 ☐	140 ☐	150 ☒	940 ☒	12,800 ☒
Trimethylbenzene, 1,3,5-	500 ☒	1,000 ☒	2.8 ☐	28 ☒	4.0 ☐	41 ☐	20 ☐	200 ☐	140 ☐	260 ☒	730 ☒	10,000 ☒
Vinyl acetate	500 ☐	1,000 ☐	8.0 ☐	80 ☐	2.2 ☐	23 ☐	7.9 ☐	81 ☐	400 ☐	10,000 ☐	1,500 ☐	18,900 ☐
Xylenes (total)										270 ☒		

Inorganics	Res DEC (mg/kg)	I/C DEC (mg/kg)	GA PMC (mg/L via SPLP)	GB PMC (mg/L via SPLP)	GWPC (µg/L)	SWPC (µg/L)
Aluminum	50,000 ☒	50,000 ☒	0.05 ☐	0.5 ☒	50 ☐	870 ☒
Ammonia	6,800 ☐	50,000 ☐	0.7 ☐	7.0 ☐	700 ☐	10,000 ☐
Barium						2,200 ☒
Boron	13,500 ☐	50,000 ☐	1.0 ☐	10 ☐	1,000 ☐	10,000 ☐
Chloride						10,000 ☐
Chlorine	6,800 ☐	50,000 ☐	4.0 ☐	40 ☐	4,000 ☐	110 ☐
Cobalt	20 ☐	610 ☐	0.002 ☐	0.02 ☐	2.1 ☐	240 ☐
Iron						10,000 ☐
Lithium	140 ☐	4,100 ☐	0.014 ☐	0.14 ☐	14 ☐	4,400 ☐
Manganese	3,400 ☐	50,000 ☐	0.50 ☐	5.0 ☐	500 ☐	930 ☐
Tin	680 ☐	20,400 ☐	0.07 ☐	0.7 ☐	70 ☐	1,800 ☐
Uranium	200 ☐	6,100 ☐	0.03 ☐	0.3 ☐	30 ☐	10,000 ☐
Vanadium						270 ☐

Key: R DEC-Residential Direct Exposure Criterion
I/C DEC-Industrial/Commercial Direct Exposure Criterion
GA PMC-GA Ground-water Class Pollutant Mobility Criterion
GB PMC-GB Ground-water Class Pollutant Mobility Criterion
R SVVC-Residential Soil Vapor Volatilization Criterion
I/C SVVC-Industrial/Commercial Soil Vapor Volatilization Criterion
GWPC-Groundwater Protection Criterion
SWPC-Surface Water Protection Criterion
R GWVC-Residential Ground-water Volatilization Criterion
I/C GWVC-Industrial/Commercial Ground-water Volatilization Criterion
mg/kg-milligrams per kilogram
ppmv-parts per million volume
µg/L-micrograms per liter
SPLP-Synthetic Precipitation Leaching Procedure
mg/L-milligrams per liter
N/A not applicable

[1] Alternative Criterion for SWPC and Vol C
[2] This criterion applies to the sum of all forms of Chlordane
[3] This criterion applies to the sum of all forms of DDT, DDD, and DDE

Blank cells – No fast track criteria have been calculated.

[4] This criterion applies to the sum of all forms of Endosulfan including the I and II isomers and Endosulfan sulfate
[5] This criterion applies to the sum of all forms of Endrin including Endrin Aldehyde and Endrin Ketone
[6] Total Oxygenates = the sum of: Tert Butyl Alcohol (TBA), MTBE, ethyl-t-butyl ether (ETBE), t-amyl-methyl ether (TAME), diisopropyl ether (DIPE).

If you have a prior Approval for Additional Polluting Substances or Alternative Criteria and are now requesting a new Approval to supercede it, please attach a copy of the prior Approval. This Approval will supercede all criteria listed in the previous Approval; a request for use of fewer than all of the previously approved criteria may require additional site-specific review by the Department.

Rem ID# 12729

Signature of Person Requesting Approval

Signature	Date: 6/20/18
Brent J. Henebry	Associate
Printed Name of Signatory	Title (if applicable)

This completed form should be submitted to:

REMEDIATION DIVISION, 2nd Floor
BUREAU OF WATER PROTECTION AND LAND REUSE
DEPARTMENT OF ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

Rem ID# 12729

Section Below Reserved for DEEP Approval

☑ The Request received by DEEP on 6/26/2018 is hereby approved.

Nothing in this approval shall affect the Commissioner's authority to institute any proceeding, or take any action to prevent or abate pollution, to recover costs and natural resource damages, and to impose penalties for violations of law, if any. If at any time the Commissioner determines that the approved actions have not fully characterized the extent and degree of pollution or have not successfully abated or prevented pollution, the Commissioner may institute any proceeding, or take any action to require further investigation or further action to prevent or abate pollution. This approval applies only to the criteria identified in this request. In addition, nothing in this approval shall relieve any person of his or her obligations under applicable federal, state and local law.

*This approval expires eight years from the date approved unless otherwise extended by the Commissioner in writing.

Jan Czeczotka
Assistant Director
Remediation Division
Bureau of Water Protection and Land Reuse

6-22-18
Date Approved

Section Below Reserved for DEEP Disapproval

☐ The Request received by DEEP on / / is hereby disapproved.

Rationale:

Jan Czeczotka
Assistant Director
Remediation Division
Bureau of Water Protection and Land Reuse

Date Disapproved

You may re-submit the request if and when the reason(s) for disapproval have been adequately addressed.

FUSS & O'NEILL

Appendix C

EDR Report

(On Thumbdrive)

Former Anocoil Corporation
60 East Main Street
Vernon Rockville, CT 06066

Inquiry Number: 5340466.2s
June 21, 2018

EDR Summary Radius Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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GEOCHECK ADDENDUM

GeoCheck - Not Requested

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

60 EAST MAIN STREET
VERNON ROCKVILLE, CT 06066

COORDINATES

Latitude (North):	41.8672360 - 41° 52' 2.04''
Longitude (West):	72.4447070 - 72° 26' 40.94''
Universal Tranverse Mercator:	Zone 18
UTM X (Meters):	712076.2
UTM Y (Meters):	4637980.0
Elevation:	433 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property:	TP
Source:	U.S. Geological Survey

Target Property:	N
Source:	U.S. Geological Survey

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140710, 20140721
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
60 EAST MAIN STREET
VERNON ROCKVILLE, CT 06066

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	ANOCOIL LLC	60 E MAIN ST	TRIS		TP
A2	ANOCOIL LLC	60 E MAIN ST	FINDS, ECHO		TP
A3	ANOCOIL LLC	60 E MAIN ST	CT UST		TP
A4	ANO COIL	60 EAST MAIN STREET	CT LWDS		TP
A5	ANO-COIL CORPORATION	60 EAST MAIN STREET	CT SDADB, CT CPCS		TP
A6	ANCO COIL CORP	60 EAST MAIN ST	CT MANIFEST		TP
A7	ANOCOIL LLC	60 EAST MAIN ST	CT SPILLS, CT ASBESTOS		TP
A8	ANO-COIL CORPORATION	60 EAST MAIN STREET	CT PROPERTY, CT SPILLS		TP
A9	ANOCOIL LLC	60 E MAIN ST	RCRA-SQG, ICIS, US AIRS, RI MANIFEST		TP
A10	ANO COIL JIM WINKLER	60 E MAIN ST	CT MANIFEST		TP
A11		60 EAST MAIN STREET	CT SPILLS		TP
A12	ANO-COIL CORPORATION	60 E MAIN ST	CT AIRS, CT ENF, CT MANIFEST, CT NPDES		TP
A13		ROCKVILLE - 60 EAST	CT SPILLS		TP
A14		60 EAST MAIN STREET	ERNS		TP
A15	ANOCOIL CORPORATION	40 BROOKLYN STREET	CT AUL, CT PROPERTY	Higher	1 ft.
A16		BROOKLYN/COURT	CT SPILLS	Higher	1 ft.
A17		29 BROOKLYN AVENUE	CT SPILLS	Higher	33, 0.006, SSE
A18		29 BROOKLYN AVENUE	CT RGA LUST	Higher	36, 0.007, SSE
19		BROOKLYN ST, BETWEEN	CT SPILLS	Higher	40, 0.008, SE
20	VERNON HOUSING AUTHO	21 COURT ST	CT SPILLS, CT ASBESTOS	Lower	44, 0.008, SW
B21	ANOCOIL CORPORATION	1 COURT STREET	CT AUL, CT VCP	Lower	46, 0.009, WNW
C22	98 EAST MAIN STREET	98 EAST MAIN STREET	CT BROWNFIELDS, CT SPILLS	Higher	59, 0.011, ENE
B23		SAINT BERNARDS TERRA	CT SPILLS	Lower	89, 0.017, WNW
C24		EAST MAIN & PROSPECT	CT SPILLS	Higher	122, 0.023, NE
C25		93 EAST MAIN ST	CT SPILLS	Higher	137, 0.026, NNE
C26		BROOKLYN STREET AMER	CT SPILLS	Higher	173, 0.033, ENE
D27		10 COTTAGE STREET	CT SPILLS	Higher	274, 0.052, North
E28		BROOKLYN STREET AND	CT SPILLS	Higher	296, 0.056, East
E29		BROOKLYN STREET AND	CT RGA LUST	Higher	296, 0.056, East
D30		15 PROSPECT STREET	CT SPILLS	Higher	302, 0.057, NNE
D31		15 COTTAGE STREET	CT SPILLS	Higher	305, 0.058, North
E32		MAIN/BROOKLYN ST.	CT SPILLS	Higher	320, 0.061, East
E33		EAST MAIN ST & GROVE	CT SPILLS	Higher	321, 0.061, East
E34		104 EAST MAIN STREET	CT SPILLS	Higher	325, 0.062, East
E35		104 EAST MAIN ST	CT SPILLS	Higher	325, 0.062, East
E36		104 EAST MAIN ST	CT SPILLS	Higher	325, 0.062, East
E37	AMBERBELLE TEXTILES-	104 EAST MAIN STREET	US BROWNFIELDS	Higher	325, 0.062, East
E38	AMERBELLE CORP	104 E MAIN ST	NJ MANIFEST	Higher	325, 0.062, East
E39	AMERBELLE TEXTILES,	104 E MAIN ST	CT UST	Higher	325, 0.062, East

MAPPED SITES SUMMARY

Target Property Address:
60 EAST MAIN STREET
VERNON ROCKVILLE, CT 06066

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
E40	AMERBELLE TEXTILES,	104 EAST MAIN STREET	CT BROWNFIELDS, CT PROPERTY, CT SPILLS, CT ENF	Higher	325, 0.062, East
E41	AMERBELLE TEXTILES L	104 E MAIN ST	CT MANIFEST	Higher	325, 0.062, East
E42		104 EAST MAIN ST.	CT SPILLS	Higher	325, 0.062, East
E43		104 EAST MAIN ST.	CT SPILLS	Higher	325, 0.062, East
E44	AMERBELLEORP	104 EAST MAIN ST	CT MANIFEST	Higher	325, 0.062, East
E45		104 EAST MAIN ST	CT SPILLS	Higher	325, 0.062, East
E46	AMERBELLE TEXTILES L	104 EAST MAIN STREET	RCRA-CESQG, ICIS, CT AIRS, RI MANIFEST, NY...	Higher	325, 0.062, East
E47	AMERBELLEORP	104 E MAIN ST	CT BROWNFIELDS, CT MANIFEST, CT NPDES	Higher	325, 0.062, East
48		8 CEDAR STREET	CT SPILLS	Higher	356, 0.067, SSE
E49		EAST MAIN AND GROVE	CT SPILLS	Higher	373, 0.071, East
E50		RT 31 AND RT 74	CT SPILLS	Higher	373, 0.071, East
E51		RT 31 AND RT 74	CT RGA LUST	Higher	373, 0.071, East
E52		GROVE STREET AND EAS	CT SPILLS	Higher	373, 0.071, East
E53	CT STATE OF DOT	RTE 74 & 31	CT MANIFEST	Higher	373, 0.071, East
E54	FORMER DRAKE SUNOCO	RTE. 74 & RTE. 31	CT RGA LUST	Higher	373, 0.071, East
E55	GROVE STREET (FORMER	1 GROVE STREET (ROUT	CT LUST, CT CPCS	Higher	393, 0.074, East
E56	GROVE STREET (FORMER	1 GROVE STREET (ROUT	CT RGA LUST	Higher	393, 0.074, East
E57	GROVE ST	1 GROVE ST	CT UST	Higher	393, 0.074, East
E58		EAST MAIN STREET AT	CT SPILLS	Higher	403, 0.076, ENE
D59		SCHOOL ST AND COTTAG	CT SPILLS	Higher	413, 0.078, North
E60	EMERGENCY RESPONSE C	112 E MAIN ST	NY MANIFEST	Higher	442, 0.084, East
F61	TRES BON DRIVE IN CL	20 EAST MAIN STREET	CT SDADB	Lower	454, 0.086, West
F62	TRES-BON DRIVE-IN CL	20 E MAIN ST	CT AIRS, CT MANIFEST	Lower	454, 0.086, West
F63	ROCKVILLE CLEANERS C	20 EAST MAIN ST	CT MANIFEST	Lower	454, 0.086, West
F64	ROCKVILLE CLEANERS	20 E MAIN ST	RCRA NonGen / NLR, FINDS, ECHO	Lower	454, 0.086, West
65		33 SCHOOL STREET	CT SPILLS	Higher	459, 0.087, NNW
F66	JAMES WRIGHT PRECISI	4 PARK ST	CT MANIFEST	Lower	509, 0.096, West
G67		19 GROVE ST	CT SPILLS	Higher	546, 0.103, ESE
G68	19 GROVE STREET	19 GROVE STREET	SEMS	Higher	546, 0.103, ESE
H69		14 PARK STREET	CT SPILLS	Lower	563, 0.107, WNW
F70	VERNON TOWN HALL	14 PARK PLACE	NY MANIFEST	Lower	589, 0.112, West
F71		14 PARK PLACE	CT SPILLS	Lower	589, 0.112, West
F72	VERNON TOWN OF	14 PARK PL	CT MANIFEST	Lower	589, 0.112, West
F73		14 PARK PLACE TOWN H	CT SPILLS	Lower	589, 0.112, West
I74	RUTH HOLLMAN	26 PLEASANT ST.	CT RGA LUST	Higher	606, 0.115, ENE
I75	RUTH HOLLMAN	26 PLEASANT ST.	CT LUST, CT CPCS	Higher	606, 0.115, ENE
H76		20 PARK ST	CT SPILLS	Higher	607, 0.115, WNW
H77		17 PARK ST	CT SPILLS	Lower	617, 0.117, WNW
H78	TALCOTTVILLE SCHOOL	MAIN ST	CT UST	Higher	619, 0.117, WNW

MAPPED SITES SUMMARY

Target Property Address:
60 EAST MAIN STREET
VERNON ROCKVILLE, CT 06066

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
J79		118 EAST MAIN STREET	CT SPILLS	Higher	635, 0.120, East
F80	CITIZENS BLOCK	28 PARK PLACE 34 PAR	US BROWNFIELDS	Lower	651, 0.123, West
I81		29 PLEASANT ST	CT SPILLS	Higher	659, 0.125, ENE
H82	ADMINISTRATION BUILD	30 PARK ST	CT UST	Higher	687, 0.130, WNW
J83	PAUL ST GERMAIN	122 E MAIN ST	CT UST	Higher	764, 0.145, East
84	GROVE HILL CEMETERY	CEMETERY AVE	CT UST	Lower	860, 0.163, West
K85	ROCKVILLE CENTRAL OF	33 ELM STREET	CT LUST, CT SPILLS	Higher	1017, 0.193, WNW
K86	ROCKVILLE CENTRAL OF	33 ELM ST	CT UST	Higher	1017, 0.193, WNW
87	AMERBELLE CORP		CT LWDS	Higher	1022, 0.194, SSE
K88	SNET	33 (35) ELM STREET	CT SDADB, CT PROPERTY	Higher	1036, 0.196, WNW
L89	APOLLO PACKAGING	20 MOUNTIAN ST	CT SDADB, CT SPILLS, RCRA NonGen / NLR, FINDS,...	Higher	1039, 0.197, NNE
L90	APOLLO PACKAGING, IN	20 MOUNTAIN STREET	CT AUL, CT PROPERTY, CT ENF	Higher	1039, 0.197, NNE
K91	ROCKVILLE PUBLIC LIB	52 ELM ST	CT UST	Higher	1071, 0.203, WNW
92	NIEMANN SAND & GRAVE		US MINES	Lower	1137, 0.215, West
M93	GRACE BIBLE BAPTIST	85 PROSPECT ST.	CT LUST, CT SPILLS, CT CPCS	Higher	1559, 0.295, WNW
M94	GRACE BIBLE BAPTIST	85 PROSPECT ST.	CT RGA LUST	Higher	1559, 0.295, WNW
95		52 UNION ST	CT RGA LUST	Lower	1688, 0.320, West
N96	GUNTER REICHL	168 EAST MAIN STREET	CT LUST, CT SPILLS, CT CPCS	Higher	1828, 0.346, East
N97	GUNTER REICHL	168 EAST MAIN STREET	CT RGA LUST	Higher	1828, 0.346, East
98		15A TALCOTT AVE	CT RGA LUST	Higher	1859, 0.352, WNW
O99	XTRA MART	81 UNION ST.	CT RGA LUST	Lower	2050, 0.388, West
O100	ERUMS MINI MART	81 UNION ST	CT SPILLS, CT CPCS, CT ENF	Lower	2050, 0.388, West
O101	ROCKVILLE XTRA MART	81 UNION ST.	CT LUST, CT ENF, CT MANIFEST	Lower	2050, 0.388, West
102		24 ELLINGTON AVENUE	CT RGA LUST	Higher	2374, 0.450, NW
P103	FINE LINE AUTO	17 FLORENCE AVENUE	CT RGA LUST	Higher	2427, 0.460, NW
P104	FIRE LINE AUTO BODY	17 FLORENCE AVE	CT LUST, CT MANIFEST	Higher	2427, 0.460, NW
Q105	BURTON PHELPS	1 UPPER BUTCHER RD.	CT LUST, CT SPILLS	Higher	2445, 0.463, NE
Q106	BURTON PHELPS	1 UPPER BUTCHER RD.	CT CPCS	Higher	2471, 0.468, NE
107	FINE LINE AUTO	FLORENCE AVE.	CT CPCS	Higher	2593, 0.491, NW
R108	N. E. WOODCRAFTING C	1135 HARTFORD TURNPI	CT SHWS, CT SDADB, CT PROPERTY, CT CPCS	Higher	4441, 0.841, South
R109	N. E. WOODCRAFTING C	1135 HARTFORD TURNPI	CT RGA HWS	Higher	4497, 0.852, South
S110	ROCKVILLE GAS AND EL	MAPLE STREET	EDR MGP	Lower	4702, 0.891, West
S111	NORTHEAST UTILITIES	WEST MAIN STREET AND	CT SHWS, CT SDADB, CT CPCS	Lower	4707, 0.891, West
S112	NORTHEAST UTILITIES	WEST MAIN STREET AND	CT RGA HWS	Lower	4707, 0.891, West

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
ANOCOIL LLC 60 E MAIN ST ROCKVILLE, CT 06066	TRIS TRIS ID: 06066NCLCR60EAS	06066NCLCR60EAS
ANOCOIL LLC 60 E MAIN ST ROCKVILLE, CT 06066	FINDS Registry ID:: 110000315374 ECHO Registry ID: 110000315374	N/A
ANOCOIL LLC 60 E MAIN ST VERNON, CT 06066	CT UST Facility Id: 146-9846 Tank Status: Permanently Closed	N/A
ANO COIL 60 EAST MAIN STREET VERNON, CT	CT LWDS Leachate and Wastewater Number: 4500006	N/A
ANO-COIL CORPORATION 60 EAST MAIN STREET VERNON, CT 06066	CT SDADB Facility Id: 5173 CT CPCS	N/A
ANCO COIL CORP 60 EAST MAIN ST ROCKVILLE, CT 06066	CT MANIFEST EPA Id: CTD018800458	N/A
ANOCOIL LLC 60 EAST MAIN ST ROCKVILLE, CT	CT SPILLS Case Number: 501 CT ASBESTOS	N/A
ANO-COIL CORPORATION 60 EAST MAIN STREET VERNON, CT	CT PROPERTY CT SPILLS Facility Status: Closed Case Number: 1076 Case Number: 9800844	N/A
ANOCOIL LLC 60 E MAIN ST ROCKVILLE, CT 06066	RCRA-SQG	CTD018800458

	EPA ID:: CTD018800458 ICIS FRS ID:: 110000315374 US AIRS Database: US AIRS MINOR, Date of Government Version: 10/12/2016 RI MANIFEST EPA Id: CTD018800458 Manifest Document Number: CTF0111065	
ANO COIL JIM WINKLER 60 E MAIN ST ROCKVILLE, CT 06066	CT MANIFEST EPA Id: CTD018800458	N/A
60 EAST MAIN STREET 60 EAST MAIN STREET VERNON, CT	CT SPILLS Facility Status: CLOSED Case Number: 201500167	N/A
ANO-COIL CORPORATION 60 E MAIN ST VERNON, CT 06066	CT AIRS CT ENF Status: Active Enforcement Action Id: FNOVWRIN14301 CT MANIFEST EPA Id: CTD018800458 CT NPDES Permit Number: CT0020389 Permit Number: SP0001242 Permit Number: GSI002047 Permit Number: GSI002753 Permit Number: GMI000072 Status: Expired Status: Continued Status: Active	N/A
ROCKVILLE - 60 EAST ROCKVILLE - 60 EAST VERNON, CT	CT SPILLS Facility Status: Closed Case Number: 9903047	N/A
60 EAST MAIN STREET 60 EAST MAIN STREET ROCKVILLE, CT 06066	ERNS NRC Report #: 158270	N/A

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal CERCLIS list

SEMS: A review of the SEMS list, as provided by EDR, and dated 01/09/2018 has revealed that there is 1 SEMS site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
19 GROVE STREET	19 GROVE STREET	ESE 0 - 1/8 (0.103 mi.)	G68	22

Federal RCRA generators list

RCRA-CESQG: A review of the RCRA-CESQG list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 RCRA-CESQG site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE TEXTILES L	***104 EAST MAIN STREET***	***E 0 - 1/8 (0.062 mi.)***	***E46***	***17***

State- and tribal - equivalent CERCLIS

CT SHWS: A review of the CT SHWS list, as provided by EDR, and dated 04/23/2010 has revealed that there are 2 CT SHWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
N. E. WOODCRAFTING C State ID: 474 EPA ID: CTD062208053	***1135 HARTFORD TURNPI***	***S 1/2 - 1 (0.841 mi.)***	***R108***	***32***

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTHEAST UTILITIES State ID: 475 EPA ID: CTD983870353	***WEST MAIN STREET AND***	***W 1/2 - 1 (0.891 mi.)***	***S111***	***32***

EXECUTIVE SUMMARY

CT SDADB: A review of the CT SDADB list, as provided by EDR, and dated 04/23/2010 has revealed that there are 3 CT SDADB sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
SNET Facility Id: 4921	***33 (35) ELM STREET***	***WNW 1/8 - 1/4 (0.196 mi.)***	***K88***	***26***
APOLLO PACKAGING Facility Id: 5518	***20 MOUNTIAN ST***	***NNE 1/8 - 1/4 (0.197 mi.)***	***L89***	***27***

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRES BON DRIVE IN CL Facility Id: 5188	20 EAST MAIN STREET	W 0 - 1/8 (0.086 mi.)	F61	21

State and tribal leaking storage tank lists

CT LUST: A review of the CT LUST list, as provided by EDR, and dated 04/23/2018 has revealed that there are 8 CT LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GROVE STREET (FORMER Lust Status: 4 LUST Id: 29581	***1 GROVE STREET (ROUT***	***E 0 - 1/8 (0.074 mi.)***	***E55***	***20***
RUTH HOLLMAN Lust Status: 4 LUST Id: 30379	***26 PLEASANT ST.***	***ENE 0 - 1/8 (0.115 mi.)***	***I75***	***24***
ROCKVILLE CENTRAL OF Lust Status: 4 LUST Id: 61260	***33 ELM STREET***	***WNW 1/8 - 1/4 (0.193 mi.)***	***K85***	***26***
GRACE BIBLE BAPTIST Lust Status: 4 LUST Id: 37223	***85 PROSPECT ST.***	***WNW 1/4 - 1/2 (0.295 mi.)***	***M93***	***28***
GUNTER REICHL Lust Status: 4 LUST Id: 36554	***168 EAST MAIN STREET***	***E 1/4 - 1/2 (0.346 mi.)***	***N96***	***29***
FIRE LINE AUTO BODY Lust Status: 4 LUST Id: 28232	***17 FLORENCE AVE***	***NW 1/4 - 1/2 (0.460 mi.)***	***P104***	***31***
BURTON PHELPS Lust Status: 4 LUST Id: 29264	***1 UPPER BUTCHER RD.***	***NE 1/4 - 1/2 (0.463 mi.)***	***Q105***	***31***

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROCKVILLE XTRA MART Lust Status: 3 LUST Id: 31801	***81 UNION ST.***	***W 1/4 - 1/2 (0.388 mi.)***	***O101***	***30***

EXECUTIVE SUMMARY

State and tribal registered storage tank lists

CT UST: A review of the CT UST list, as provided by EDR, and dated 02/27/2018 has revealed that there are 8 CT UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE TEXTILES, Facility Id: 146-2991 Tank Status: Permanently Closed	104 E MAIN ST	E 0 - 1/8 (0.062 mi.)	E39	16
GROVE ST Facility Id: 146-2873 Tank Status: Permanently Closed	1 GROVE ST	E 0 - 1/8 (0.074 mi.)	E57	20
TALCOTTVILLE SCHOOL Facility Id: 146-3039 Tank Status: Permanently Closed	MAIN ST	WNW 0 - 1/8 (0.117 mi.)	H78	24
ADMINISTRATION BUILD Facility Id: 146-3053 Tank Status: Permanently Closed Tank Status: Currently In Use	30 PARK ST	WNW 1/8 - 1/4 (0.130 mi.)	H82	25
PAUL ST GERMAIN Facility Id: 146-2865 Tank Status: Permanently Closed	122 E MAIN ST	E 1/8 - 1/4 (0.145 mi.)	J83	25
ROCKVILLE CENTRAL OF Facility Id: 146-2867 Tank Status: Permanently Closed	33 ELM ST	WNW 1/8 - 1/4 (0.193 mi.)	K86	26
ROCKVILLE PUBLIC LIB Facility Id: 146-11348 Tank Status: Permanently Closed Tank Status: Currently In Use	52 ELM ST	WNW 1/8 - 1/4 (0.203 mi.)	K91	27

Lower Elevation	Address	Direction / Distance	Map ID	Page
GROVE HILL CEMETERY Facility Id: 146-2613 Tank Status: Permanently Closed	CEMETERY AVE	W 1/8 - 1/4 (0.163 mi.)	84	26

State and tribal institutional control / engineering control registries

CT AUL: A review of the CT AUL list, as provided by EDR, and dated 05/04/2018 has revealed that there are 3 CT AUL sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
ANOCOIL CORPORATION Status: Pending Facility Id: 12729	***40 BROOKLYN STREET***	***0 - 1/8 (0.000 mi.)***	***A15***	***11***
APOLLO PACKAGING, IN	***20 MOUNTAIN STREET***	***NNE 1/8 - 1/4 (0.197 mi.)***	***L90***	***27***

Status: Certificate of Title
Facility Id: 4411

Lower Elevation	Address	Direction / Distance	Map ID	Page
ANOCOIL CORPORATION	***1 COURT STREET***	***WNW 0 - 1/8 (0.009 mi.)***	***B21***	***12***
Status: Pending Facility Id: 12734				

State and tribal voluntary cleanup sites

CT VCP: A review of the CT VCP list, as provided by EDR, and dated 02/13/2018 has revealed that there is 1 CT VCP site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ANOCOIL CORPORATION	***1 COURT STREET***	***WNW 0 - 1/8 (0.009 mi.)***	***B21***	***12***
Status: Withdrawn				

State and tribal Brownfields sites

CT BROWNFIELDS: A review of the CT BROWNFIELDS list, as provided by EDR, has revealed that there are 3 CT BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
98 EAST MAIN STREET	***98 EAST MAIN STREET***	***ENE 0 - 1/8 (0.011 mi.)***	***C22***	***12***
Database: BROWNFIELDS 2, Date of Government Version: 08/03/2017				
AMERBELLE TEXTILES,	***104 EAST MAIN STREET***	***E 0 - 1/8 (0.062 mi.)***	***E40***	***16***
Database: BROWNFIELDS 2, Date of Government Version: 08/03/2017				
AMERBELLEORP	***104 E MAIN ST***	***E 0 - 1/8 (0.062 mi.)***	***E47***	***18***
Database: BROWNFIELDS 2, Date of Government Version: 08/03/2017				

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A review of the US BROWNFIELDS list, as provided by EDR, and dated 03/19/2018 has revealed that there are 2 US BROWNFIELDS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMBERBELLE TEXTILES-	104 EAST MAIN STREET	E 0 - 1/8 (0.062 mi.)	E37	15
Lower Elevation	**Address**	**Direction / Distance**	**Map ID**	**Page**
CITIZENS BLOCK	28 PARK PLACE 34 PAR	W 0 - 1/8 (0.123 mi.)	F80	25

EXECUTIVE SUMMARY

Records of Emergency Release Reports

CT SPILLS: A review of the CT SPILLS list, as provided by EDR, and dated 04/25/2018 has revealed that there are 37 CT SPILLS sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported Case Number: 2465	BROOKLYN/COURT	0 - 1/8 (0.000 mi.)	A16	11
Not reported Facility Status: closed Case Number: 200006971	29 BROOKLYN AVENUE	SSE 0 - 1/8 (0.006 mi.)	A17	11
Not reported Facility Status: Closed Case Number: 9908272	BROOKLYN ST, BETWEEN	SE 0 - 1/8 (0.008 mi.)	19	12
98 EAST MAIN STREET Facility Status: CLOSED Case Number: 9803063	***98 EAST MAIN STREET***	***ENE 0 - 1/8 (0.011 mi.)***	***C22***	***12***
Not reported Facility Status: CLOSED Case Number: 200807351	EAST MAIN & PROSPECT	NE 0 - 1/8 (0.023 mi.)	C24	13
Not reported Facility Status: CLOSED Case Number: 201206729	93 EAST MAIN ST	NNE 0 - 1/8 (0.026 mi.)	C25	13
Not reported Facility Status: CLOSED Case Number: 9603740	BROOKLYN STREET AMER	ENE 0 - 1/8 (0.033 mi.)	C26	13
Not reported Facility Status: Closed Facility Status: CLOSED Case Number: 200206062 Case Number: 201300213	10 COTTAGE STREET	N 0 - 1/8 (0.052 mi.)	D27	13
Not reported Facility Status: Closed Case Number: 200104967	BROOKLYN STREET AND	E 0 - 1/8 (0.056 mi.)	E28	14
Not reported Facility Status: CLOSED Case Number: 200800236	15 PROSPECT STREET	NNE 0 - 1/8 (0.057 mi.)	D30	14
Not reported Facility Status: CLOSED Case Number: 201702615	15 COTTAGE STREET	N 0 - 1/8 (0.058 mi.)	D31	14
Not reported Facility Status: Closed Case Number: 9805963	MAIN/BROOKLYN ST.	E 0 - 1/8 (0.061 mi.)	E32	14
Not reported Facility Status: Closed Case Number: 9707005	EAST MAIN ST & GROVE	E 0 - 1/8 (0.061 mi.)	E33	15
Not reported Facility Status: CLOSED	104 EAST MAIN STREET	E 0 - 1/8 (0.062 mi.)	E34	15

Facility Status: Closed Case Number: 200507362 Case Number: 200904815 Case Number: 209 Case Number: 9702526				
Not reported Case Number: 1491	104 EAST MAIN ST	E 0 - 1/8 (0.062 mi.)	E35	15
Not reported Case Number: 686	104 EAST MAIN ST	E 0 - 1/8 (0.062 mi.)	E36	15
AMERBELLE TEXTILES, Case Number: 5647	***104 EAST MAIN STREET***	***E 0 - 1/8 (0.062 mi.)***	***E40***	***16***
Not reported Facility Status: CLOSED Case Number: 1962 Case Number: 201304181	104 EAST MAIN ST.	E 0 - 1/8 (0.062 mi.)	E42	17
Not reported Facility Status: Closed Case Number: 200001003 Case Number: 200102261	104 EAST MAIN ST.	E 0 - 1/8 (0.062 mi.)	E43	17
Not reported Facility Status: Closed Case Number: 200109286	104 EAST MAIN ST	E 0 - 1/8 (0.062 mi.)	E45	17
Not reported Facility Status: CLOSED Case Number: 200901237	8 CEDAR STREET	SSE 0 - 1/8 (0.067 mi.)	48	18
Not reported Facility Status: CLOSED Case Number: 201306736	EAST MAIN AND GROVE	E 0 - 1/8 (0.071 mi.)	E49	18
Not reported Facility Status: Closed Case Number: 200104940	RT 31 AND RT 74	E 0 - 1/8 (0.071 mi.)	E50	19
Not reported Facility Status: CLOSED Case Number: 201304170	GROVE STREET AND EAS	E 0 - 1/8 (0.071 mi.)	E52	19
Not reported Facility Status: CLOSED Case Number: 9707020	EAST MAIN STREET AT	ENE 0 - 1/8 (0.076 mi.)	E58	20
Not reported Facility Status: CLOSED Case Number: 201403022	SCHOOL ST AND COTTAG	N 0 - 1/8 (0.078 mi.)	D59	20
Not reported Facility Status: CLOSED Case Number: 201800145	33 SCHOOL STREET	NNW 0 - 1/8 (0.087 mi.)	65	22
Not reported Facility Status: CLOSED Facility Status: Closed Case Number: 201503225 Case Number: 9807765	19 GROVE ST	ESE 0 - 1/8 (0.103 mi.)	G67	22
Not reported	20 PARK ST	WNW 0 - 1/8 (0.115 mi.)	H76	24

Case Number: 6232

Not reported Facility Status: CLOSED Case Number: 201602232	118 EAST MAIN STREET	E 0 - 1/8 (0.120 mi.)	J79	25
Not reported Case Number: 711	29 PLEASANT ST	ENE 0 - 1/8 (0.125 mi.)	I81	25

Lower Elevation	Address	Direction / Distance	Map ID	Page
VERNON HOUSING AUTHO Facility Status: CLOSED Case Number: 201300289	***21 COURT ST***	***SW 0 - 1/8 (0.008 mi.)***	***20***	***12***
Not reported Facility Status: CLOSED Case Number: 200603537	SAINT BERNARDS TERRA	WNW 0 - 1/8 (0.017 mi.)	B23	13
Not reported Facility Status: CLOSED Case Number: 201202597	14 PARK STREET	WNW 0 - 1/8 (0.107 mi.)	H69	23
Not reported Case Number: 6822	14 PARK PLACE	W 0 - 1/8 (0.112 mi.)	F71	23
Not reported Facility Status: CLOSED Case Number: 201204330	14 PARK PLACE TOWN H	W 0 - 1/8 (0.112 mi.)	F73	23
Not reported Case Number: 2492	17 PARK ST	WNW 0 - 1/8 (0.117 mi.)	H77	24

Other Ascertainable Records

RCRA NonGen / NLR: A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 12/11/2017 has revealed that there is 1 RCRA NonGen / NLR site within approximately 0.125 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROCKVILLE CLEANERS	***20 E MAIN ST***	***W 0 - 1/8 (0.086 mi.)***	***F64***	***21***

US MINES: A review of the US MINES list, as provided by EDR, has revealed that there is 1 US MINES site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NIEMANN SAND & GRAVE Database: US MINES, Date of Government Version: 01/25/2018		W 1/8 - 1/4 (0.215 mi.)	92	28

EXECUTIVE SUMMARY

CT CPCS: A review of the CT CPCS list, as provided by EDR, and dated 09/26/2017 has revealed that there are 8 CT CPCS sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GROVE STREET (FORMER	***1 GROVE STREET (ROUT***	***E 0 - 1/8 (0.074 mi.)***	***E55***	***20***
Lust Status: LUST Completed (DEP's significant hazard definition)				
RUTH HOLLMAN	***26 PLEASANT ST.***	***ENE 0 - 1/8 (0.115 mi.)***	***I75***	***24***
Lust Status: LUST Completed (DEP's significant hazard definition)				
APOLLO PACKAGING	***20 MOUNTIAN ST***	***NNE 1/8 - 1/4 (0.197 mi.)***	***L89***	***27***
GRACE BIBLE BAPTIST	***85 PROSPECT ST.***	***WNW 1/4 - 1/2 (0.295 mi.)***	***M93***	***28***
Lust Status: LUST Completed (DEP's significant hazard definition)				
GUNTER REICHL	***168 EAST MAIN STREET***	***E 1/4 - 1/2 (0.346 mi.)***	***N96***	***29***
Lust Status: LUST Completed (DEP's significant hazard definition)				
BURTON PHELPS	1 UPPER BUTCHER RD.	NE 1/4 - 1/2 (0.468 mi.)	Q106	31
Lust Status: LUST Completed (DEP's significant hazard definition)				
FINE LINE AUTO	FLORENCE AVE.	NW 1/4 - 1/2 (0.491 mi.)	107	31
Lust Status: LUST Completed (DEP's significant hazard definition)				

Lower Elevation	Address	Direction / Distance	Map ID	Page
ERUMS MINI MART	***81 UNION ST***	***W 1/4 - 1/2 (0.388 mi.)***	***O100***	***29***
Lust Status: Cleanup Initiated				

CT LWDS: A review of the CT LWDS list, as provided by EDR, and dated 07/17/2009 has revealed that there is 1 CT LWDS site within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE CORP		SSE 1/8 - 1/4 (0.194 mi.)	87	26
Leachate and Wastewater Number: 4500005				

CT MANIFEST: A review of the CT MANIFEST list, as provided by EDR, and dated 01/03/2018 has revealed that there are 8 CT MANIFEST sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE TEXTILES L	104 E MAIN ST	E 0 - 1/8 (0.062 mi.)	E41	16
EPA Id: CTD001139898				
AMERBELLEORP	104 EAST MAIN ST	E 0 - 1/8 (0.062 mi.)	E44	17
EPA Id: CTD001139898				
AMERBELLEORP	***104 E MAIN ST***	***E 0 - 1/8 (0.062 mi.)***	***E47***	***18***
EPA Id: CTD001139898				
CT STATE OF DOT	RTE 74 & 31	E 0 - 1/8 (0.071 mi.)	E53	19
EPA Id: CTP000010545				

Lower Elevation	Address	Direction / Distance	Map ID	Page
TRES-BON DRIVE-IN CL	***20 E MAIN ST***	***W 0 - 1/8 (0.086 mi.)***	***F62***	***21***

EPA Id: CTD981212640				
ROCKVILLE CLEANERS C EPA Id: CTP000005365	20 EAST MAIN ST	W 0 - 1/8 (0.086 mi.)	F63	21
JAMES WRIGHT PRECISI EPA Id: CT$000021630	4 PARK ST	W 0 - 1/8 (0.096 mi.)	F66	22
VERNON TOWN OF EPA Id: CTP000027468	14 PARK PL	W 0 - 1/8 (0.112 mi.)	F72	23

NY MANIFEST: A review of the NY MANIFEST list, as provided by EDR, and dated 04/30/2018 has revealed that there are 3 NY MANIFEST sites within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE TEXTILES L EPA ID: CTD001139898	***104 EAST MAIN STREET***	***E 0 - 1/8 (0.062 mi.)***	***E46***	***17***
EMERGENCY RESPONSE C EPA ID: CTP000015432	112 E MAIN ST	E 0 - 1/8 (0.084 mi.)	E60	21

Lower Elevation	Address	Direction / Distance	Map ID	Page
VERNON TOWN HALL EPA ID: CTP000027468	14 PARK PLACE	W 0 - 1/8 (0.112 mi.)	F70	23

NJ MANIFEST: A review of the NJ MANIFEST list, as provided by EDR, and dated 12/31/2016 has revealed that there is 1 NJ MANIFEST site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE CORP EPA Id: CTD001139898	104 E MAIN ST	E 0 - 1/8 (0.062 mi.)	E38	16

RI MANIFEST: A review of the RI MANIFEST list, as provided by EDR, and dated 12/31/2017 has revealed that there is 1 RI MANIFEST site within approximately 0.125 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AMERBELLE TEXTILES L EPA ID: CTD001139898	***104 EAST MAIN STREET***	***E 0 - 1/8 (0.062 mi.)***	***E46***	***17***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: A review of the EDR MGP list, as provided by EDR, has revealed that there is 1 EDR MGP site

within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROCKVILLE GAS AND EL	MAPLE STREET	W 1/2 - 1 (0.891 mi.)	S110	32

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

CT RGA HWS: A review of the CT RGA HWS list, as provided by EDR, has revealed that there are 2 CT RGA HWS sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
N. E. WOODCRAFTING C	1135 HARTFORD TURNPI	S 1/2 - 1 (0.852 mi.)	R109	32

Lower Elevation	Address	Direction / Distance	Map ID	Page
NORTHEAST UTILITIES	WEST MAIN STREET AND	W 1/2 - 1 (0.891 mi.)	S112	33

CT RGA LUST: A review of the CT RGA LUST list, as provided by EDR, has revealed that there are 13 CT RGA LUST sites within approximately 0.5 miles of the target property.

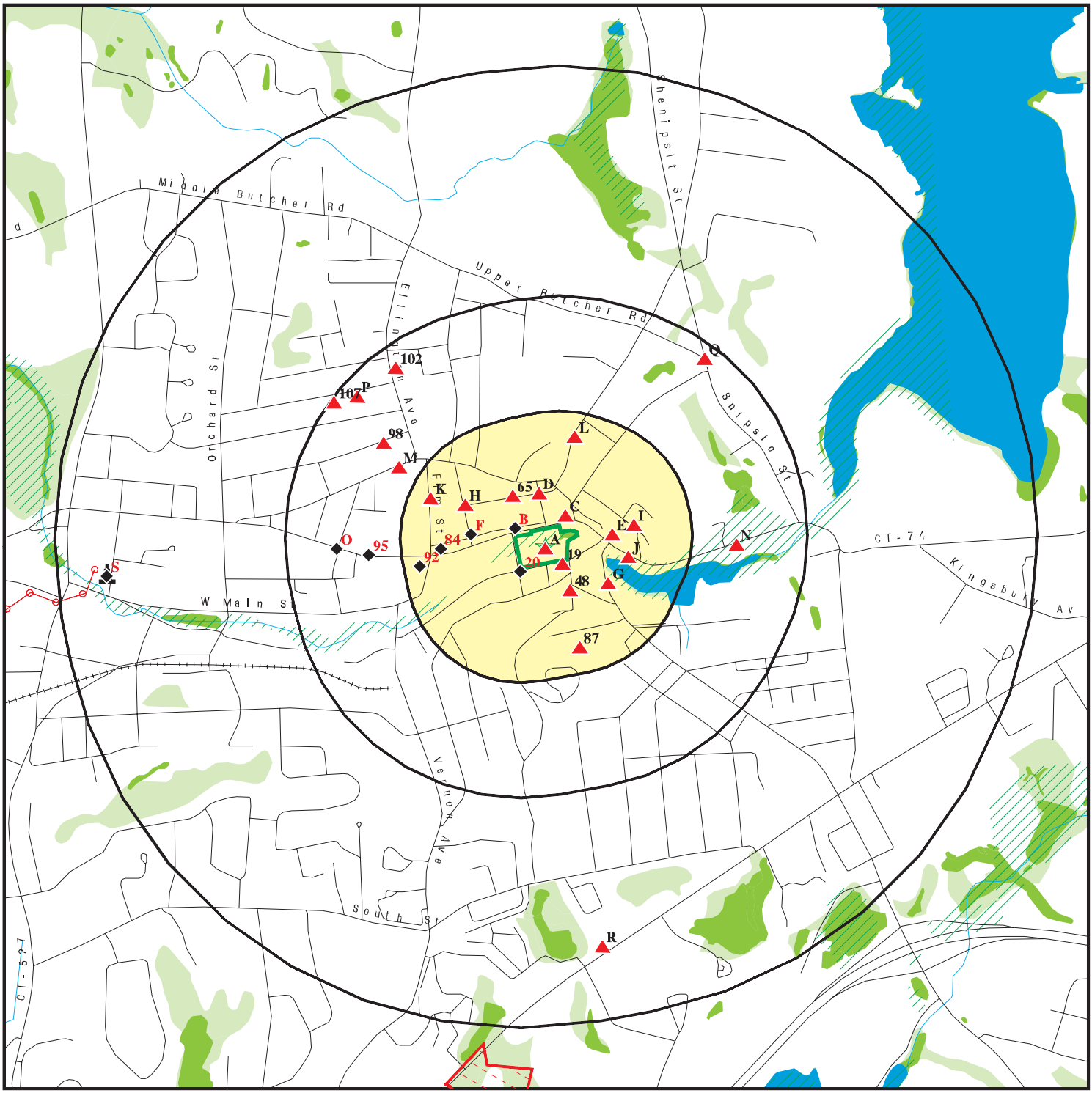
Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
Not reported	29 BROOKLYN AVENUE	SSE 0 - 1/8 (0.007 mi.)	A18	11
Not reported	BROOKLYN STREET AND	E 0 - 1/8 (0.056 mi.)	E29	14
Not reported	RT 31 AND RT 74	E 0 - 1/8 (0.071 mi.)	E51	19
FORMER DRAKE SUNOCO	RTE. 74 & RTE. 31	E 0 - 1/8 (0.071 mi.)	E54	19
GROVE STREET (FORMER	1 GROVE STREET (ROUT	E 0 - 1/8 (0.074 mi.)	E56	20
RUTH HOLLMAN	26 PLEASANT ST.	ENE 0 - 1/8 (0.115 mi.)	I74	24
GRACE BIBLE BAPTIST	85 PROSPECT ST.	WNW 1/4 - 1/2 (0.295 mi.)	M94	28
GUNTER REICHL	168 EAST MAIN STREET	E 1/4 - 1/2 (0.346 mi.)	N97	29
Not reported	15A TALCOTT AVE	WNW 1/4 - 1/2 (0.352 mi.)	98	29
Not reported	24 ELLINGTON AVENUE	NW 1/4 - 1/2 (0.450 mi.)	102	30
FINE LINE AUTO	17 FLORENCE AVENUE	NW 1/4 - 1/2 (0.460 mi.)	P103	30

Lower Elevation	Address	Direction / Distance	Map ID	Page
Not reported	52 UNION ST	W 1/4 - 1/2 (0.320 mi.)	95	28
XTRA MART	81 UNION ST.	W 1/4 - 1/2 (0.388 mi.)	O99	29

Count: 0 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
		NO SITES FOUND			

OVERVIEW MAP - 5340466.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Upgradient Area

N

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Former Anocoil Corporation	CLIENT:	Fuss & O Neill
ADDRESS:	60 East Main Street Vernon Rockville CT 06066	CONTACT:	Kevin Vanderveer
LAT/LONG:	41.867236 / 72.444707	INQUIRY #:	5340466.2s
		DATE:	June 21, 2018 2:21 pm

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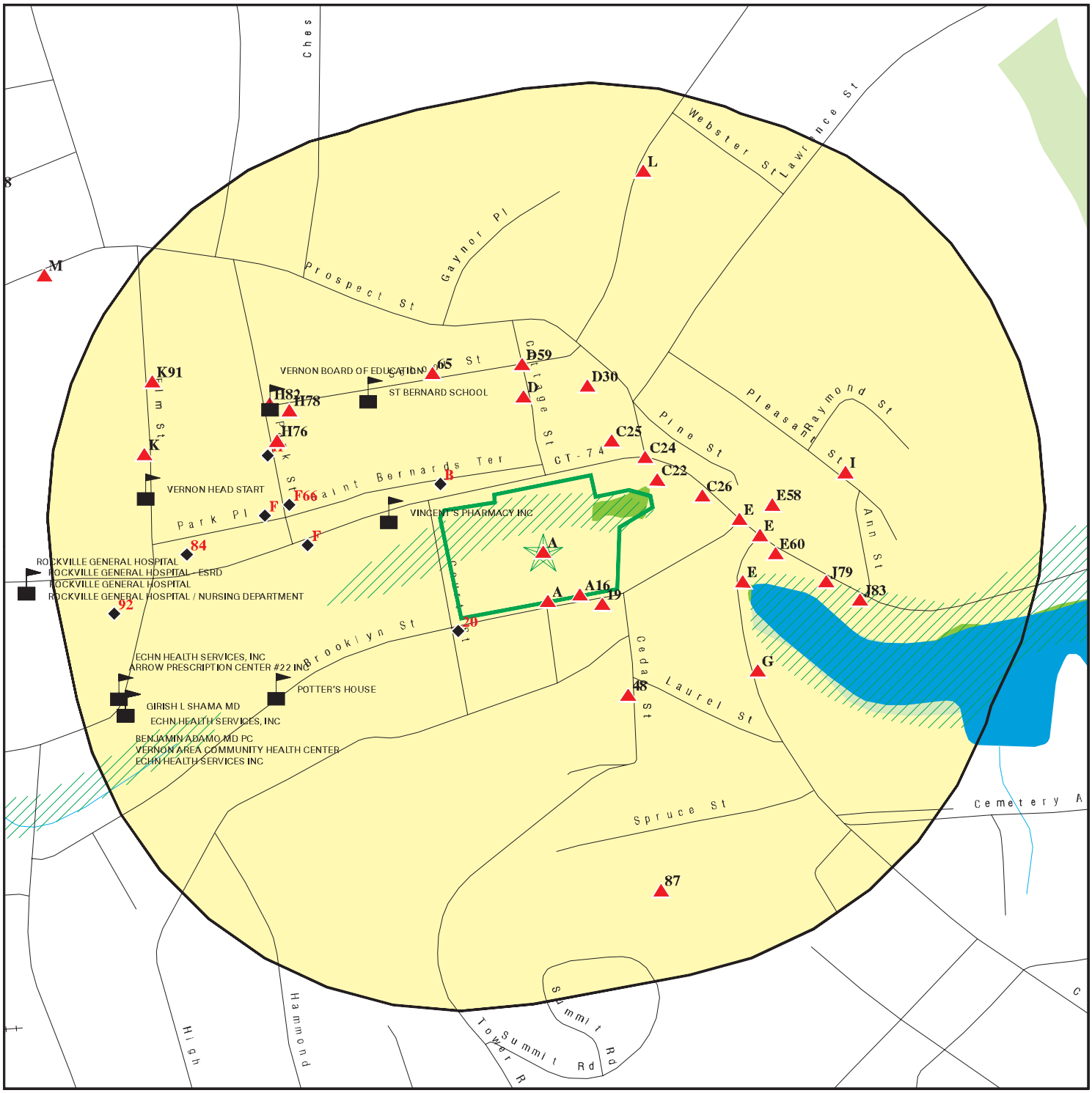
DETAIL MAP - 5340466.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	Former Anocoil Corporation	CLIENT:	Fuss & O Neill
ADDRESS:	60 East Main Street Vernon Rockville CT 06066	CONTACT:	Kevin Vanderveer
LAT/LONG:	41.867236 / 72.444707	INQUIRY #:	5340466.2s
		DATE:	June 21, 2018 2:21 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		1	0	0	NR	NR	1
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		0	0	NR	NR	NR	0
RCRA-SQG	0.250	1	0	0	NR	NR	NR	1
RCRA-CESQG	0.250		1	0	NR	NR	NR	1
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP	1	NR	NR	NR	NR	NR	1
State- and tribal - equivalent CERCLIS								
CT SHWS	1.000		0	0	0	2	NR	2
CT SDADB	0.500	1	1	2	0	NR	NR	4
State and tribal landfill and/or solid waste disposal site lists								
CT SWF/LF	0.500		0	0	0	NR	NR	0
State and tribal leaking storage tank lists								
CT LUST	0.500		2	1	5	NR	NR	8
INDIAN LUST	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
CT UST	0.250	1	3	5	NR	NR	NR	9
CT AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal institutional control / engineering control registries								
CT ENG CONTROLS	0.500		0	0	0	NR	NR	0
CT AUL	0.500		2	1	0	NR	NR	3
State and tribal voluntary cleanup sites								
CT VCP	0.500		1	0	0	NR	NR	1
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
CT BROWNFIELDS	0.500		3	0	0	NR	NR	3
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		2	0	0	NR	NR	2
Local Lists of Landfill / Solid Waste Disposal Sites								
CT SWRCY	0.500		0	0	0	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	TP		NR	NR	NR	NR	NR	0
CT CDL	TP		NR	NR	NR	NR	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Land Records								
CT PROPERTY	TP	1	NR	NR	NR	NR	NR	1
CT LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CT SPILLS	0.125	4	37	NR	NR	NR	NR	41
Other Ascertainable Records								
RCRA NonGen / NLR	0.125		1	NR	NR	NR	NR	1
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP	1	NR	NR	NR	NR	NR	1
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP	1	NR	NR	NR	NR	NR	1
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP	1	NR	NR	NR	NR	NR	1
US MINES	0.250		0	1	NR	NR	NR	1
ABANDONED MINES	TP		NR	NR	NR	NR	NR	0
FINDS	TP	1	NR	NR	NR	NR	NR	1
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CT AIRS	TP	1	NR	NR	NR	NR	NR	1
CT ASBESTOS	TP	1	NR	NR	NR	NR	NR	1
CT CPCS	0.500	1	2	1	5	NR	NR	9
CT DRYCLEANERS	0.250		0	0	NR	NR	NR	0
CT ENF	TP	1	NR	NR	NR	NR	NR	1
CT Financial Assurance	TP		NR	NR	NR	NR	NR	0
CT LEAD	TP		NR	NR	NR	NR	NR	0
CT LWDS	0.250	1	0	1	NR	NR	NR	2
CT MANIFEST	0.125	3	8	NR	NR	NR	NR	11
NY MANIFEST	0.125		3	NR	NR	NR	NR	3
NJ MANIFEST	0.125		1	NR	NR	NR	NR	1
RI MANIFEST	0.125	1	1	NR	NR	NR	NR	2
CT NPDES	TP	1	NR	NR	NR	NR	NR	1
CT SEH	0.500		0	0	0	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	1	NR	1

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
EDR Hist Auto	0.250		0	0	NR	NR	NR	0
EDR Hist Cleaner	0.250		0	0	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
CT RGA HWS	1.000		0	0	0	2	NR	2
CT RGA LUST	0.500		6	0	7	NR	NR	13
- Totals --		24	75	12	17	5	0	133

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1
Target
Property

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066

TRIS **1016146280**
06066NCLCR60EAS

Actual:
433 ft.

Click here for full text details

TRIS
TRIS ID: 06066NCLCR60EAS

A2
Target
Property

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066

FINDS **1017428459**
ECHO **N/A**

Actual:
433 ft.

Click here for full text details

FINDS
Registry ID:: 110000315374

ECHO
Registry ID: 110000315374

A3
Target
Property

ANOCOIL LLC
60 E MAIN ST
VERNON, CT 06066

CT UST **U004276883**
N/A

Actual:
433 ft.

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-9846

A4
Target
Property

ANO COIL
60 EAST MAIN STREET
VERNON, CT

CT LWDS **S108301491**
N/A

Actual:
433 ft.

Click here for full text details

CT LWDS
Leachate and Wastewater Number: 4500006

A5
Target
Property

ANO-COIL CORPORATION
60 EAST MAIN STREET
VERNON, CT 06066

CT SDADB **U002025880**
CT CPCS **N/A**

Actual:
433 ft.

Click here for full text details

CT SDADB
Facility Id: 5173

A6
Target
Property
ANCO COIL CORP
60 EAST MAIN ST
ROCKVILLE, CT 06066

CT MANIFEST **S109726113**
N/A

Actual:
433 ft.

Click here for full text details

CT MANIFEST
EPA Id: CTD018800458

A7
Target
Property
ANOCOIL LLC
60 EAST MAIN ST
ROCKVILLE, CT

CT SPILLS **S104085036**
CT ASBESTOS **N/A**

Actual:
433 ft.

Click here for full text details

CT SPILLS
Case Number: 501

A8
Target
Property
ANO-COIL CORPORATION
60 EAST MAIN STREET
VERNON, CT

CT PROPERTY **S108789771**
CT SPILLS **N/A**

Actual:
433 ft.

Click here for full text details

CT SPILLS
Case Number: 1076
Case Number: 9800844
Facility Status: Closed

A9
Target
Property
ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066

RCRA-SQG **1000108139**
ICIS **CTD018800458**
US AIRS
RI MANIFEST

Actual:
433 ft.

Click here for full text details

RCRA-SQG
EPA Id: CTD018800458

ICIS
FRS ID:: 110000315374

RI MANIFEST
EPA Id: CTD018800458
Manifest Document Number: CTF0111065

A10
Target Property
ANO COIL JIM WINKLER E
60 E MAIN ST
ROCKVILLE, CT 06066

CT MANIFEST **S121134472**
N/A

Actual:
433 ft.

Click here for full text details

CT MANIFEST
EPA Id: CTD018800458

A11
Target Property
60 EAST MAIN STREET
VERNON, CT

CT SPILLS **S117540324**
N/A

Actual:
433 ft.

Click here for full text details

CT SPILLS
Case Number: 201500167
Facility Status: CLOSED

A12
Target Property
ANO-COIL CORPORATION
60 E MAIN ST
VERNON, CT 06066

CT AIRS **S108911989**
CT ENF **N/A**
CT MANIFEST
CT NPDES

Actual:
433 ft.

Click here for full text details

CT ENF
Enforcement Action Id: FNOVWRIN14301
Status: Active

CT MANIFEST
EPA Id: CTD018800458

CT NPDES
Permit Number: CT0020389
Permit Number: SP0001242
Permit Number: GSI002047
Permit Number: GSI002753
Permit Number: GMI000072
Status: Expired
Status: Continued
Status: Active

A13
Target Property
ROCKVILLE - 60 EAST MAIN STREET
VERNON, CT

CT SPILLS **S104185027**
N/A

Actual:
433 ft.

Click here for full text details

CT SPILLS
Case Number: 9903047
Facility Status: Closed

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
A14		**ERNS**	**93158270**
Target Property	**60 EAST MAIN STREET** **ROCKVILLE, CT 06066**		**N/A**
Actual: 433 ft.	**Click here for full text details** **ERNS** NRC Report #: 158270		
A15	**ANOCOIL CORPORATION** **40 BROOKLYN STREET**	**CT AUL** **CT PROPERTY**	**S120783806** **N/A**
< 1/8 **1 ft.**	**VERNON, CT**		
Relative: Higher	**Click here for full text details** **CT AUL** Facility Id: 12729 Status: Pending		
A16		**CT SPILLS**	**S104096401**
< 1/8 **1 ft.**	**BROOKLYN/COURT** **ROCKVILLE, CT**		**N/A**
Relative: Higher	**Click here for full text details** **CT SPILLS** Case Number: 2465		
A17		**CT SPILLS**	**S105447485**
SSE **< 1/8** **0.006 mi.** **33 ft.**	**29 BROOKLYN AVENUE** **VERNON, CT**		**N/A**
Relative: Higher	**Click here for full text details** **CT SPILLS** Case Number: 200006971 Facility Status: closed		
A18		**CT RGA LUST**	**S116021624**
SSE **< 1/8** **0.007 mi.** **36 ft.**	**29 BROOKLYN AVENUE** **VERNON, CT**		**N/A**
Relative: Higher	**Click here for full text details**		

19
SE
< 1/8
0.008 mi.
40 ft.

Relative:
Higher

BROOKLYN ST, BETWEEN CHERRY & CEDAR POLE 181
VERNON, CT

CT SPILLS **S106502785**
N/A

Click here for full text details

CT SPILLS
Case Number: 9908272
Facility Status: Closed

20
SW
< 1/8
0.008 mi.
44 ft.

Relative:
Lower

VERNON HOUSING AUTHORITY
21 COURT ST
VERNON, CT 06066

CT SPILLS **S112806399**
CT ASBESTOS **N/A**

Click here for full text details

CT SPILLS
Case Number: 201300289
Facility Status: CLOSED

B21
WNW
< 1/8
0.009 mi.
46 ft.

Relative:
Lower

ANOCOIL CORPORATION
1 COURT STREET
VERNON, CT

CT AUL **S118942588**
CT VCP **N/A**

Click here for full text details

CT AUL
Facility Id: 12734
Status: Pending

CT VCP
Status: Withdrawn

C22
ENE
< 1/8
0.011 mi.
59 ft.

Relative:
Higher

98 EAST MAIN STREET
98 EAST MAIN STREET
VERNON, CT

CT BROWNFIELDS **S105440381**
CT SPILLS **N/A**

Click here for full text details

CT SPILLS
Case Number: 9803063
Facility Status: CLOSED

B23
WNW
< 1/8
0.017 mi.
89 ft.

Relative:
Lower

SAINT BERNARDS TERRACE
VERNON, CT

CT SPILLS **S108044571**
N/A

Click here for full text details

CT SPILLS
Case Number: 200603537
Facility Status: CLOSED

C24
NE
< 1/8
0.023 mi.
122 ft.

Relative:
Higher

EAST MAIN & PROSPECT STREET
VERNON, CT

CT SPILLS **S109377498**
N/A

Click here for full text details

CT SPILLS
Case Number: 200807351
Facility Status: CLOSED

C25
NNE
< 1/8
0.026 mi.
137 ft.

Relative:
Higher

93 EAST MAIN ST
VERNON, CT

CT SPILLS **S112805455**
N/A

Click here for full text details

CT SPILLS
Case Number: 201206729
Facility Status: CLOSED

C26
ENE
< 1/8
0.033 mi.
173 ft.

Relative:
Higher

BROOKLYN STREET AMERBELLE CORP.
VERNON, CT

CT SPILLS **S103154769**
N/A

Click here for full text details

CT SPILLS
Case Number: 9603740
Facility Status: CLOSED

D27
North
< 1/8
0.052 mi.
274 ft.

Relative:
Higher

10 COTTAGE STREET
VERNON, CT

CT SPILLS **S105616196**
N/A

Click here for full text details

CT SPILLS
Case Number: 200206062
Case Number: 201300213
Facility Status: Closed
Facility Status: CLOSED

E28
East
< 1/8
0.056 mi.
296 ft.

Relative:
Higher

BROOKLYN STREET AND ROUTE 74
VERNON, CT

CT SPILLS **S105146177**
N/A

Click here for full text details

CT SPILLS
Case Number: 200104967
Facility Status: Closed

E29
East
< 1/8
0.056 mi.
296 ft.

Relative:
Higher

BROOKLYN STREET AND ROUTE 74
VERNON, CT

CT RGA LUST **S116025128**
N/A

Click here for full text details

D30
NNE
< 1/8
0.057 mi.
302 ft.

Relative:
Higher

15 PROSPECT STREET
VERNON, CT

CT SPILLS **S108964512**
N/A

Click here for full text details

CT SPILLS
Case Number: 200800236
Facility Status: CLOSED

D31
North
< 1/8
0.058 mi.
305 ft.

Relative:
Higher

15 COTTAGE STREET
VERNON, CT

CT SPILLS **S120771204**
N/A

Click here for full text details

CT SPILLS
Case Number: 201702615
Facility Status: CLOSED

E32
East
< 1/8
0.061 mi.
320 ft.

Relative:
Higher

MAIN/BROOKLYN ST.
VERNON, CT

CT SPILLS **S104031502**
N/A

Click here for full text details

CT SPILLS
Case Number: 9805963
Facility Status: Closed

E33
East
< 1/8
0.061 mi.
321 ft.

Relative:
Higher

CT SPILLS **S106501282**
N/A

EAST MAIN ST & GROVE ST AT AMERBELLE CO
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 9707005
Facility Status: Closed

E34
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

CT SPILLS **S101989866**
N/A

104 EAST MAIN STREET
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 200507362
Case Number: 200904815
Case Number: 209
Case Number: 9702526
Facility Status: CLOSED
Facility Status: Closed

E35
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

CT SPILLS **S104076803**
N/A

104 EAST MAIN ST
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 1491

E36
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

CT SPILLS **S104096389**
N/A

104 EAST MAIN ST
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 686

E37
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMBERBELLE TEXTILES-DYE AND TREATMENT OF FABRIC PR **US BROWNFIELDS** **1009309726**
104 EAST MAIN STREET AND 5 BROOKLYN STREET **N/A**
VERNON, CT 06066

Click here for full text details

US BROWNFIELDS
ACRES property ID: 11395

E38
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLE CORP
104 E MAIN ST
ROCKVILLE, CT 06066

NJ MANIFEST

S117984049
N/A

Click here for full text details

NJ MANIFEST
EPA Id: CTD001139898

E39
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLE TEXTILES, LLC
104 E MAIN ST
VERNON, CT 06066

CT UST

U002023060
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-2991

E40
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLE TEXTILES, LLC
104 EAST MAIN STREET
VERNON, CT

CT BROWNFIELDS
CT PROPERTY
CT SPILLS
CT ENF

S104083994
N/A

Click here for full text details

CT SPILLS
Case Number: 5647

CT ENF
Enforcement Action Id: FNOVWSWDH075
Enforcement Action Id: NOVWRIN07030
Enforcement Action Id: NOVWRIN08003
Status: Active

E41
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLE TEXTILES LLC
104 E MAIN ST
VERNON, CT 06066

CT MANIFEST

S109722902
N/A

Click here for full text details

CT MANIFEST
EPA Id: CTD001139898

E42
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

104 EAST MAIN ST.
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 1962
Case Number: 201304181
Facility Status: CLOSED

CT SPILLS **S104103040**
N/A

E43
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

104 EAST MAIN ST.
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 200001003
Case Number: 200102261
Facility Status: Closed

CT SPILLS **S104413137**
N/A

E44
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLEORP
104 EAST MAIN ST
VERNON, CT 06066

Click here for full text details

CT MANIFEST
EPA Id: CTD001139898

CT MANIFEST **S121133784**
N/A

E45
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

104 EAST MAIN ST
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 200109286
Facility Status: Closed

CT SPILLS **S108646591**
N/A

E46
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLE TEXTILES LLC
104 EAST MAIN STREET
VERNON, CT 06066

Click here for full text details

RCRA-CESQG
EPA Id: CTD001139898

ICIS

RCRA-CESQG **1000354177**
ICIS **CTD001139898**
CT AIRS
RI MANIFEST
NY MANIFEST

AMERBELLE TEXTILES LLC (Continued) **1000354177**

FRS ID:: 110011369214

CT AIRS
OBS: 2143
OBS: 2144
OBS: 2145

RI MANIFEST
EPA Id: CTD001139898
Manifest Document Number: 000079828UIS

NY MANIFEST
EPA ID: CTD001139898

E47
East
< 1/8
0.062 mi.
325 ft.

Relative:
Higher

AMERBELLEORP **CT BROWNFIELDS** **S109722900**
104 E MAIN ST **CT MANIFEST** **N/A**
VERNON, CT 06066 **CT NPDES**

Click here for full text details

CT MANIFEST
EPA Id: CTD001139898

CT NPDES
Permit Number: GSI001758
Permit Number: CTMIU0191
Status: Expired
Status: Active

48
SSE
< 1/8
0.067 mi.
356 ft.

Relative:
Higher

CT SPILLS **S109549252**
N/A

8 CEDAR STREET
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 200901237
Facility Status: CLOSED

E49
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

CT SPILLS **S115597922**
N/A

EAST MAIN AND GROVE STREET
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 201306736
Facility Status: CLOSED

E50
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

RT 31 AND RT 74
VERNON, CT

CT SPILLS **S105146154**
N/A

Click here for full text details

CT SPILLS
Case Number: 200104940
Facility Status: Closed

E51
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

RT 31 AND RT 74
VERNON, CT

CT RGA LUST **S116036324**
N/A

Click here for full text details

E52
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

GROVE STREET AND EAST MAIN STREET
VERNON, CT

CT SPILLS **S114015844**
N/A

Click here for full text details

CT SPILLS
Case Number: 201304170
Facility Status: CLOSED

E53
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

CT STATE OF DOT
RTE 74 & 31
VERNON, CT 06066

CT MANIFEST **S109739742**
N/A

Click here for full text details

CT MANIFEST
EPA Id: CTP000010545

E54
East
< 1/8
0.071 mi.
373 ft.

Relative:
Higher

FORMER DRAKE SUNOCO
RTE. 74 & RTE. 31
VERNON, CT

CT RGA LUST **S116028591**
N/A

Click here for full text details

E55
East
< 1/8
0.074 mi.
393 ft.

Relative:
Higher

GROVE STREET (FORMER DRAKE SUNOCO)
1 GROVE STREET (ROUTE 74 AND ROUTE 31)
VERNON, CT 6066

CT LUST **S102414222**
CT CPCS **N/A**

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 29581

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

E56
East
< 1/8
0.074 mi.
393 ft.

Relative:
Higher

GROVE STREET (FORMER DRAKE SUNOCO)
1 GROVE STREET (ROUTE 74 AND ROUTE 31)
VERNON, CT

CT RGA LUST **S116029775**
N/A

Click here for full text details

E57
East
< 1/8
0.074 mi.
393 ft.

Relative:
Higher

GROVE ST
1 GROVE ST
VERNON, CT 06066

CT UST **U002023038**
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-2873

E58
ENE
< 1/8
0.076 mi.
403 ft.

Relative:
Higher

EAST MAIN STREET AT GROVE
VERNON, CT

CT SPILLS **S103163788**
N/A

Click here for full text details

CT SPILLS
Case Number: 9707020
Facility Status: CLOSED

D59
North
< 1/8
0.078 mi.
413 ft.

Relative:
Higher

SCHOOL ST AND COTTAGE ST
VERNON, CT

CT SPILLS **S116762853**
N/A

Click here for full text details

CT SPILLS
Case Number: 201403022
Facility Status: CLOSED

E60
East
< 1/8
0.084 mi.
442 ft.

Relative:
Higher

EMERGENCY RESPONSE CGS-22A-451
112 E MAIN ST
VERNON, CT 06066

NY MANIFEST **1009220187**
N/A

Click here for full text details

NY MANIFEST
EPA ID: CTP000015432

F61
West
< 1/8
0.086 mi.
454 ft.

Relative:
Lower

TRES BON DRIVE IN CLEANERS
20 EAST MAIN STREET
VERNON, CT

CT SDADB **S104563539**
N/A

Click here for full text details

CT SDADB
Facility Id: 5188

F62
West
< 1/8
0.086 mi.
454 ft.

Relative:
Lower

TRES-BON DRIVE-IN CLEANERS
20 E MAIN ST
VERNON ROCKVILLE, CT 06066

CT AIRS **S109730873**
CT MANIFEST **N/A**

Click here for full text details

CT MANIFEST
EPA Id: CTD981212640

F63
West
< 1/8
0.086 mi.
454 ft.

Relative:
Lower

ROCKVILLE CLEANERS COURT HOUSE PLAZA
20 EAST MAIN ST
ROCKVILLE, CT 06066

CT MANIFEST **S109735666**
N/A

Click here for full text details

CT MANIFEST
EPA Id: CTP000005365

F64
West
< 1/8
0.086 mi.
454 ft.

Relative:
Lower

ROCKVILLE CLEANERS
20 E MAIN ST
ROCKVILLE, CT 06066

RCRA NonGen / NLR **1000272999**
FINDS **CTD981212640**
ECHO

Click here for full text details

RCRA NonGen / NLR
EPA Id: CTD981212640

FINDS
Registry ID:: 110002481467

ECHO

ROCKVILLE CLEANERS (Continued) **1000272999**

Registry ID: 110002481467

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65 **CT SPILLS** **S121368998**
NNW **33 SCHOOL STREET** **N/A**
< 1/8 **VERNON, CT**
0.087 mi.
459 ft.

Relative:
Higher

Click here for full text details

CT SPILLS
Case Number: 201800145
Facility Status: CLOSED

F66 **JAMES WRIGHT PRECISION PRODUCTS INC** **CT MANIFEST** **S121700996**
West **4 PARK ST** **N/A**
< 1/8 **VERNON, CT 06066**
0.096 mi.
509 ft.

Relative:
Lower

Click here for full text details

CT MANIFEST
EPA Id: CT$000021630

G67 **CT SPILLS** **S104033286**
ESE **19 GROVE ST** **N/A**
< 1/8 **VERNON, CT**
0.103 mi.
546 ft.

Relative:
Higher

Click here for full text details

CT SPILLS
Case Number: 201503225
Case Number: 9807765
Facility Status: CLOSED
Facility Status: Closed

G68 **19 GROVE STREET** **SEMS** **1018148689**
ESE **19 GROVE STREET** **CTN000100864**
< 1/8 **VERNON, CT 06066**
0.103 mi.
546 ft.

Relative:
Higher

Click here for full text details

H69
WNW
< 1/8
0.107 mi.
563 ft.

Relative:
Lower

14 PARK STREET
VERNON, CT

CT SPILLS **S112073360**
N/A

Click here for full text details

CT SPILLS
Case Number: 201202597
Facility Status: CLOSED

F70
West
< 1/8
0.112 mi.
589 ft.

Relative:
Lower

VERNON TOWN HALL
14 PARK PLACE
VERNON, CT 06066

NY MANIFEST **1009220824**
N/A

Click here for full text details

NY MANIFEST
EPA ID: CTP000027468

F71
West
< 1/8
0.112 mi.
589 ft.

Relative:
Lower

14 PARK PLACE
VERNON, CT

CT SPILLS **S104096444**
N/A

Click here for full text details

CT SPILLS
Case Number: 6822

F72
West
< 1/8
0.112 mi.
589 ft.

Relative:
Lower

VERNON TOWN OF
14 PARK PL
VERNON, CT 06066

CT MANIFEST **S109753504**
N/A

Click here for full text details

CT MANIFEST
EPA Id: CTP000027468

F73
West
< 1/8
0.112 mi.
589 ft.

Relative:
Lower

14 PARK PLACE TOWN HALL
VERNON, CT

CT SPILLS **S112193561**
N/A

Click here for full text details

CT SPILLS
Case Number: 201204330
Facility Status: CLOSED

I74
ENE
< 1/8
0.115 mi.
606 ft.

Relative:
Higher

RUTH HOLLMAN — **CT RGA LUST** — **S116036504**
26 PLEASANT ST. — **N/A**
VERNON, CT

Click here for full text details

I75
ENE
< 1/8
0.115 mi.
606 ft.

Relative:
Higher

RUTH HOLLMAN — **CT LUST** — **S105457175**
26 PLEASANT ST. — **CT CPCS** — **N/A**
VERNON, CT 06066

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 30379

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

H76
WNW
< 1/8
0.115 mi.
607 ft.

Relative:
Higher

CT SPILLS — **S104090219**
20 PARK ST — **N/A**
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 6232

H77
WNW
< 1/8
0.117 mi.
617 ft.

Relative:
Lower

CT SPILLS — **S104081206**
17 PARK ST — **N/A**
VERNON, CT

Click here for full text details

CT SPILLS
Case Number: 2492

H78
WNW
< 1/8
0.117 mi.
619 ft.

Relative:
Higher

TALCOTTVILLE SCHOOL — **CT UST** — **U002173110**
MAIN ST — **N/A**
VERNON, CT

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-3039

J79
East
< 1/8
0.120 mi.
635 ft.

Relative:
Higher

118 EAST MAIN STREET
VERNON, CT

CT SPILLS **S118734298**
N/A

Click here for full text details

CT SPILLS
Case Number: 201602232
Facility Status: CLOSED

F80
West
< 1/8
0.123 mi.
651 ft.

Relative:
Lower

CITIZENS BLOCK
28 PARK PLACE 34 PARK PLACE
VERNON, CT 06066

US BROWNFIELDS **1023619346**
N/A

Click here for full text details

US BROWNFIELDS
ACRES property ID: 204781

I81
ENE
< 1/8
0.125 mi.
659 ft.

Relative:
Higher

29 PLEASANT ST
ROCKVILLE, CT

CT SPILLS **S104103033**
N/A

Click here for full text details

CT SPILLS
Case Number: 711

H82
WNW
1/8-1/4
0.130 mi.
687 ft.

Relative:
Higher

ADMINISTRATION BUILDING
30 PARK ST
VERNON, CT 06066

CT UST **U002173118**
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Tank Status: Currently In Use
Facility Id: 146-3053

J83
East
1/8-1/4
0.145 mi.
764 ft.

Relative:
Higher

PAUL ST GERMAIN
122 E MAIN ST
VERNON, CT 06066

CT UST **U003518291**
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-2865

84
West
1/8-1/4
0.163 mi.
860 ft.

Relative:
Lower

GROVE HILL CEMETERY AVE
CEMETERY AVE
VERNON, CT

CT UST **U002022875**
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-2613

K85
WNW
1/8-1/4
0.193 mi.
1017 ft.

Relative:
Higher

ROCKVILLE CENTRAL OFFICE #5541
33 ELM STREET
VERNON, CT 60063

CT LUST **S104103064**
CT SPILLS **N/A**

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 61260

CT SPILLS
Case Number: 5355

K86
WNW
1/8-1/4
0.193 mi.
1017 ft.

Relative:
Higher

ROCKVILLE CENTRAL OFFICE# 5541
33 ELM ST
VERNON, CT 06066

CT UST **U002173015**
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Facility Id: 146-2867

87
SSE
1/8-1/4
0.194 mi.
1022 ft.

Relative:
Higher

AMERBELLE CORP

VERNON, CT

CT LWDS **S109937003**
N/A

Click here for full text details

CT LWDS
Leachate and Wastewater Number: 4500005

K88
WNW
1/8-1/4
0.196 mi.
1036 ft.

Relative:
Higher

SNET
33 (35) ELM STREET
VERNON, CT

CT SDADB **S104563399**
CT PROPERTY **N/A**

Click here for full text details

CT SDADB
Facility Id: 4921

L89
NNE
1/8-1/4
0.197 mi.
1039 ft.

Relative:
Higher

APOLLO PACKAGING
20 MOUNTIAN ST
ROCKVILLE, CT 06066

CT SDADB 1001201499
CT SPILLS CTR000004044
RCRA NonGen / NLR
FINDS
ECHO
CT CPCS

Click here for full text details

CT SDADB
Facility Id: 5518

CT SPILLS
Case Number: 200102505
Facility Status: Closed

RCRA NonGen / NLR
EPA Id: CTR000004044

FINDS
Registry ID:: 110002495256

ECHO
Registry ID: 110002495256

L90
NNE
1/8-1/4
0.197 mi.
1039 ft.

Relative:
Higher

APOLLO PACKAGING, INC.
20 MOUNTAIN STREET
VERNON, CT

CT AUL S107412664
CT PROPERTY N/A
CT ENF

Click here for full text details

CT AUL
Facility Id: 4411
Status: Certificate of Title

CT ENF
Enforcement Action Id: HW-1058

K91
WNW
1/8-1/4
0.203 mi.
1071 ft.

Relative:
Higher

ROCKVILLE PUBLIC LIBRARY
52 ELM ST
VERNON, CT 06066

CT UST U003160222
N/A

Click here for full text details

CT UST
Tank Status: Permanently Closed
Tank Status: Currently In Use
Facility Id: 146-11348

92
West
1/8-1/4
0.215 mi.
1137 ft.

Relative:
Lower

NIEMANN SAND & GRAVEL INC

TOLLAND (County), CT

US MINES **1011136415**
N/A

Click here for full text details

US MINES
Mine ID:: 0600500

M93
WNW
1/4-1/2
0.295 mi.
1559 ft.

Relative:
Higher

GRACE BIBLE BAPTIST CHURCH
85 PROSPECT ST.
VERNON, CT 6066

CT LUST **S105443364**
CT SPILLS **N/A**
CT CPCS

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 37223

CT SPILLS
Case Number: 9901407
Facility Status: Closed

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

M94
WNW
1/4-1/2
0.295 mi.
1559 ft.

Relative:
Higher

GRACE BIBLE BAPTIST CHURCH
85 PROSPECT ST.
VERNON, CT

CT RGA LUST **S116029627**
N/A

Click here for full text details

95
West
1/4-1/2
0.320 mi.
1688 ft.

Relative:
Lower

52 UNION ST
VERNON, CT

CT RGA LUST **S116022579**
N/A

Click here for full text details

N96
East
1/4-1/2
0.346 mi.
1828 ft.

Relative:
Higher

GUNTER REICHL
168 EAST MAIN STREET
VERNON, CT 6066

CT LUST
CT SPILLS
CT CPCS

S104311032
N/A

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 36554

CT SPILLS
Case Number: 9904580
Facility Status: Closed

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

N97
East
1/4-1/2
0.346 mi.
1828 ft.

Relative:
Higher

GUNTER REICHL
168 EAST MAIN STREET
VERNON, CT

CT RGA LUST

S116029831
N/A

Click here for full text details

98
WNW
1/4-1/2
0.352 mi.
1859 ft.

Relative:
Higher

15A TALCOTT AVE
VERNON, CT

CT RGA LUST

S116020758
N/A

Click here for full text details

O99
West
1/4-1/2
0.388 mi.
2050 ft.

Relative:
Lower

XTRA MART
81 UNION ST.
VERNON-ROCKVILLE, CT

CT RGA LUST

S116040019
N/A

Click here for full text details

O100
West
1/4-1/2
0.388 mi.
2050 ft.

Relative:
Lower

ERUMS MINI MART
81 UNION ST
VERNON, CT

CT SPILLS
CT CPCS
CT ENF

S105458045
N/A

Click here for full text details

CT SPILLS
Case Number: 200304567

ERUMS MINI MART (Continued) **S105458045**

Facility Status: Closed

CT CPCS
Lust Status: Cleanup Initiated

CT ENF
Enforcement Action Id: COAR1700--03003

O101
West
1/4-1/2
0.388 mi.
2050 ft.

Relative:
Lower

ROCKVILLE XTRA MART **CT LUST** **S109738086**
81 UNION ST. **CT ENF** **N/A**
VERNON-ROCKVILLE, CT 6066 **CT MANIFEST**

Click here for full text details

CT LUST
Lust Status: Cleanup Initiated
LUST Id: 31801

CT ENF
Enforcement Action Id: NVAR17382--14100
Status: Active

CT MANIFEST
EPA Id: CTP000008562

102
NW
1/4-1/2
0.450 mi.
2374 ft.

Relative:
Higher

CT RGA LUST **S116021350**
N/A

24 ELLINGTON AVENUE
ELLINGTON, CT

Click here for full text details

P103
NW
1/4-1/2
0.460 mi.
2427 ft.

Relative:
Higher

FINE LINE AUTO **CT RGA LUST** **S116028296**
17 FLORENCE AVENUE **N/A**
ELLINGTON, CT

Click here for full text details

P104
NW
1/4-1/2
0.460 mi.
2427 ft.

Relative:
Higher

FIRE LINE AUTO BODY
17 FLORENCE AVE
ELLINGTON, CT 06029

CT LUST
CT MANIFEST

S109738026
N/A

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 28232

CT MANIFEST
EPA Id: CTP000008469

Q105
NE
1/4-1/2
0.463 mi.
2445 ft.

Relative:
Higher

BURTON PHELPS
1 UPPER BUTCHER RD.
VERNON, CT 6066

CT LUST
CT SPILLS

S103701249
N/A

Click here for full text details

CT LUST
Lust Status: Lust Completed
LUST Id: 29264

CT SPILLS
Case Number: 2529

Q106
NE
1/4-1/2
0.468 mi.
2471 ft.

Relative:
Higher

BURTON PHELPS
1 UPPER BUTCHER RD.
VERNON, CT 06066

CT CPCS

S105456581
N/A

Click here for full text details

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

107
NW
1/4-1/2
0.491 mi.
2593 ft.

Relative:
Higher

FINE LINE AUTO
FLORENCE AVE.
ELLINGTON, CT 06029

CT CPCS

S101405484
N/A

Click here for full text details

CT CPCS
Lust Status: LUST Completed (DEP's significant hazard definition)

Map ID / Direction / Distance / Elevation	Site	Database(s)	EDR ID Number / EPA ID Number
R108 **South** **1/2-1** **0.841 mi.** **4441 ft.** **Relative: Higher**	**N. E. WOODCRAFTING CO.** **1135 HARTFORD TURNPIKE** **VERNON, CT 06066**	**CT SHWS** **CT SDADB** **CT PROPERTY** **CT CPCS**	**S104255275** **N/A**
	Click here for full text details		
	CT SHWS State ID: 474 EPA ID: CTD062208053		
	CT SDADB Facility Id: 474		
R109 **South** **1/2-1** **0.852 mi.** **4497 ft.** **Relative: Higher**	**N. E. WOODCRAFTING CO.** **1135 HARTFORD TURNPIKE** **VERNON, CT**	**CT RGA HWS**	**S116040517** **N/A**
	Click here for full text details		
S110 **West** **1/2-1** **0.891 mi.** **4702 ft.** **Relative: Lower**	**ROCKVILLE GAS AND ELECTRIC CO** **MAPLE STREET** **ROCKVILLE, CT 06029**	**EDR MGP**	**1008408855** **N/A**
	Click here for full text details		
S111 **West** **1/2-1** **0.891 mi.** **4707 ft.** **Relative: Lower**	**NORTHEAST UTILITIES** **WEST MAIN STREET AND MAPLE STREET** **VERNON, CT 06066**	**CT SHWS** **CT SDADB** **CT CPCS**	**S104255276** **N/A**
	Click here for full text details		
	CT SHWS State ID: 475 EPA ID: CTD983870353		
	CT SDADB Facility Id: 475		

Map ID Direction Distance Elevation	Site	Database(s)	EDR ID Number EPA ID Number
S112 **West** **1/2-1** **0.891 mi.** **4707 ft.** **Relative:** **Lower**	**NORTHEAST UTILITIES** **WEST MAIN STREET AND MAPLE STREET** **VERNON, CT** **Click here for full text details**	**CT RGA HWS**	**S116040550** **N/A**

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
CT	AIRS	Permitted Air Sources Listing	Department of Energy & Environmental Protecti	02/02/2018	04/20/2018	05/18/2018
CT	ASBESTOS	Asbestos Notification Listing	Department of Public Health	05/01/2018	05/04/2018	05/18/2018
CT	AST	Marine Terminals and Tank Information	Department of Energy & Environmental Protecti	06/30/2017	07/05/2017	08/30/2017
CT	AUL	ELUR Sites	Department of Energy & Environmental Protecti	05/04/2018	05/18/2018	06/20/2018
CT	BROWNFIELDS	Brownfields Inventory	Connecticut Brownfields Redevelopment Authori	03/25/2016	03/29/2016	05/18/2016
CT	BROWNFIELDS 2	Brownfields Inventory	Department of Energy & Environmental Protecti	08/03/2017	09/20/2017	09/26/2017
CT	CDL	Clandestine Drug Lab Listing	Department of Energy & Environmental Protecti	04/25/2018	05/04/2018	05/21/2018
CT	CPCS	Contaminated or Potentially Contaminated Sites	Department of Energy & Environmental Protecti	09/26/2017	09/27/2017	10/27/2017
CT	CT MANIFEST	Hazardous Waste Manifest Data	Department of Energy & Environmental Protecti	01/03/2018	02/14/2018	03/22/2018
CT	CT PROPERTY	Property Transfer Filings	Department of Energy & Environmental Protecti	02/13/2018	02/16/2018	03/22/2018
CT	DRYCLEANERS	Drycleaner Facilities	Department of Energy & Environmental Protecti	07/18/2008	08/08/2008	08/27/2008
CT	ENFORCEMENT	Enforcement Case Listing	Department of Energy & Environmental Protecti	05/08/2018	05/11/2018	05/21/2018
CT	ENG CONTROLS	Engineering Controls Listing	Department of Energy & Environmental Protecti	03/05/2013	05/07/2013	06/19/2013
CT	Financial Assurance 1	Financial Assurance Information Listing	Department of Energy & Environmental Protecti	06/29/2017	07/05/2017	08/30/2017
CT	Financial Assurance 2	Financial Assurance Information Listing	Department of Energy & Environmental Protecti	06/29/2017	07/05/2017	08/30/2017
CT	LEAD	Lead Inspection Database	Department of Public Health	03/26/2014	03/27/2014	05/08/2014
CT	LIENS	Environmental Liens Listing	Department of Energy & Environmental Protecti	10/23/2017	11/17/2017	12/13/2017
CT	LUST	Leaking Underground Storage Tank List	Department of Energy & Environmental Protecti	04/23/2018	05/04/2018	05/21/2018
CT	LWDS	Connecticut Leachate and Wastewater Discharge Sites	Department of Energy & Environmental Protecti	07/17/2009	10/21/2009	10/30/2009
CT	NPDES	Wastewater Permit Listing	Department of Energy & Environmental Protecti	04/17/2018	04/20/2018	05/21/2018
CT	RGA HWS	Recovered Government Archive State Hazardous Waste Facilitie	Department of Energy & Environmental Protecti		07/01/2013	01/02/2014
CT	RGA LUST	Recovered Government Archive Leaking Underground Storage Tan	Department of Energy & Environmental Protecti		07/01/2013	01/02/2014
CT	SDADB	Site Discovery and Assessment Database	Department of Energy & Environmental Protecti	04/23/2010	04/23/2010	05/25/2010
CT	SEH	List of Significant Environmental Hazards Report to DEEP	Department of Energy & Environmental Protecti	11/30/2017	01/23/2018	02/15/2018
CT	SHWS	Inventory of Hazardous Disposal Sites	Department of Energy & Environmental Protecti	04/23/2010	04/23/2010	05/25/2010
CT	SPILLS	Oil & Chemical Spill Database	Department of Energy & Environmental Protecti	04/25/2018	05/04/2018	05/21/2018
CT	SWF/LF	List of Landfills/Transfer Stations	Department of Energy & Environmental Protecti	10/13/2017	10/27/2017	12/13/2017
CT	SWRCY	Recycling Facilities	Department of Energy & Environmental Protecti	03/09/2018	03/20/2018	04/16/2018
CT	UST	Underground Storage Tank Data	Department of Energy & Environmental Protecti	02/27/2018	03/22/2018	04/16/2018
CT	VCP	Voluntary Remediation Sites	Department of Energy & Environmental Protecti	02/13/2018	02/16/2018	03/22/2018
US	2020 COR ACTION	2020 Corrective Action Program List	Environmental Protection Agency	04/22/2013	03/03/2015	03/09/2015
US	ABANDONED MINES	Abandoned Mines	Department of Interior	03/08/2018	03/13/2018	06/08/2018
US	BRS	Biennial Reporting System	EPA/NTIS	12/31/2015	02/22/2017	09/28/2017
US	COAL ASH DOE	Steam-Electric Plant Operation Data	Department of Energy	12/31/2005	08/07/2009	10/22/2009
US	COAL ASH EPA	Coal Combustion Residues Surface Impoundments List	Environmental Protection Agency	07/01/2014	09/10/2014	10/20/2014
US	CONSENT	Superfund (CERCLA) Consent Decrees	Department of Justice, Consent Decree Library	12/31/2017	01/24/2018	04/13/2018
US	CORRACTS	Corrective Action Report	EPA	12/11/2017	12/26/2017	02/09/2018
US	DEBRIS REGION 9	Torres Martinez Reservation Illegal Dump Site Locations	EPA, Region 9	01/12/2009	05/07/2009	09/21/2009
US	DOCKET HWC	Hazardous Waste Compliance Docket Listing	Environmental Protection Agency	01/04/2018	01/19/2018	04/13/2018
US	DOD	Department of Defense Sites	USGS	12/31/2005	11/10/2006	01/11/2007
US	DOT OPS	Incident and Accident Data	Department of Transporation, Office of Pipeli	07/31/2012	08/07/2012	09/18/2012
US	Delisted NPL	National Priority List Deletions	EPA	12/11/2017	12/22/2017	01/05/2018
US	ECHO	Enforcement & Compliance History Information	Environmental Protection Agency	02/25/2018	03/17/2018	06/08/2018
US	EDR Hist Auto	EDR Exclusive Historical Auto Stations	EDR, Inc.			
US	EDR Hist Cleaner	EDR Exclusive Historical Cleaners	EDR, Inc.			
US	EDR MGP	EDR Proprietary Manufactured Gas Plants	EDR, Inc.			
US	EPA WATCH LIST	EPA WATCH LIST	Environmental Protection Agency	08/30/2013	03/21/2014	06/17/2014

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	ERNS	Emergency Response Notification System	National Response Center, United States Coast	03/19/2018	03/27/2018	06/08/2018
US	FEDERAL FACILITY	Federal Facility Site Information listing	Environmental Protection Agency	11/07/2016	01/05/2017	04/07/2017
US	FEDLAND	Federal and Indian Lands	U.S. Geological Survey	12/31/2005	02/06/2006	01/11/2007
US	FEMA UST	Underground Storage Tank Listing	FEMA	05/15/2017	05/30/2017	10/13/2017
US	FINDS	Facility Index System/Facility Registry System	EPA	02/21/2018	02/23/2018	03/23/2018
US	FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA/Office of Prevention, Pesticides and Toxi	04/09/2009	04/16/2009	05/11/2009
US	FTTS INSP	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fu	EPA	04/09/2009	04/16/2009	05/11/2009
US	FUDS	Formerly Used Defense Sites	U.S. Army Corps of Engineers	01/31/2015	07/08/2015	10/13/2015
US	FUELS PROGRAM	EPA Fuels Program Registered Listing	EPA	02/20/2018	02/21/2018	03/23/2018
US	FUSRAP	Formerly Utilized Sites Remedial Action Program	Department of Energy	12/23/2016	12/27/2016	02/17/2017
US	HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HIST FTTS INSP	FIFRA/TSCA Tracking System Inspection & Enforcement Case Lis	Environmental Protection Agency	10/19/2006	03/01/2007	04/10/2007
US	HMIRS	Hazardous Materials Information Reporting System	U.S. Department of Transportation	03/26/2018	03/27/2018	06/08/2018
US	ICIS	Integrated Compliance Information System	Environmental Protection Agency	11/18/2016	11/23/2016	02/10/2017
US	IHS OPEN DUMPS	Open Dumps on Indian Land	Department of Health & Human Serivces, Indian	04/01/2014	08/06/2014	01/29/2015
US	INDIAN LUST R1	Leaking Underground Storage Tanks on Indian Land	EPA Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R10	Leaking Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN LUST R4	Leaking Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN LUST R5	Leaking Underground Storage Tanks on Indian Land	EPA, Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN LUST R6	Leaking Underground Storage Tanks on Indian Land	EPA Region 6	01/06/2018	01/23/2018	04/13/2018
US	INDIAN LUST R7	Leaking Underground Storage Tanks on Indian Land	EPA Region 7	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R8	Leaking Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN LUST R9	Leaking Underground Storage Tanks on Indian Land	Environmental Protection Agency	09/30/2017	01/23/2018	04/13/2018
US	INDIAN ODI	Report on the Status of Open Dumps on Indian Lands	Environmental Protection Agency	12/31/1998	12/03/2007	01/24/2008
US	INDIAN RESERV	Indian Reservations	USGS	12/31/2014	07/14/2015	01/10/2017
US	INDIAN UST R1	Underground Storage Tanks on Indian Land	EPA, Region 1	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R10	Underground Storage Tanks on Indian Land	EPA Region 10	10/24/2017	01/23/2018	04/13/2018
US	INDIAN UST R4	Underground Storage Tanks on Indian Land	EPA Region 4	10/14/2017	01/23/2018	04/13/2018
US	INDIAN UST R5	Underground Storage Tanks on Indian Land	EPA Region 5	10/16/2017	01/23/2018	04/13/2018
US	INDIAN UST R6	Underground Storage Tanks on Indian Land	EPA Region 6	04/24/2017	07/27/2017	12/08/2017
US	INDIAN UST R7	Underground Storage Tanks on Indian Land	EPA Region 7	01/13/2018	01/23/2018	04/13/2018
US	INDIAN UST R8	Underground Storage Tanks on Indian Land	EPA Region 8	10/12/2017	01/23/2018	04/13/2018
US	INDIAN UST R9	Underground Storage Tanks on Indian Land	EPA Region 9	09/30/2017	01/23/2018	04/13/2018
US	INDIAN VCP R1	Voluntary Cleanup Priority Listing	EPA, Region 1	07/27/2015	09/29/2015	02/18/2016
US	INDIAN VCP R7	Voluntary Cleanup Priority Lisitng	EPA, Region 7	03/20/2008	04/22/2008	05/19/2008
US	LEAD SMELTER 1	Lead Smelter Sites	Environmental Protection Agency	01/09/2018	02/06/2018	03/02/2018
US	LEAD SMELTER 2	Lead Smelter Sites	American Journal of Public Health	04/05/2001	10/27/2010	12/02/2010
US	LIENS 2	CERCLA Lien Information	Environmental Protection Agency	01/09/2018	02/06/2018	05/11/2018
US	LUCIS	Land Use Control Information System	Department of the Navy	02/16/2018	02/22/2018	05/11/2018
US	MLTS	Material Licensing Tracking System	Nuclear Regulatory Commission	08/30/2016	09/08/2016	10/21/2016
US	NPL	National Priority List	EPA	12/11/2017	12/22/2017	01/05/2018
US	NPL LIENS	Federal Superfund Liens	EPA	10/15/1991	02/02/1994	03/30/1994
US	ODI	Open Dump Inventory	Environmental Protection Agency	06/30/1985	08/09/2004	09/17/2004
US	PADS	PCB Activity Database System	EPA	06/01/2017	06/09/2017	10/13/2017
US	PCB TRANSFORMER	PCB Transformer Registration Database	Environmental Protection Agency	05/24/2017	11/30/2017	12/15/2017
US	PRP	Potentially Responsible Parties	EPA	10/25/2013	10/17/2014	10/20/2014
US	Proposed NPL	Proposed National Priority List Sites	EPA	12/11/2017	12/22/2017	01/05/2018

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	RAATS	RCRA Administrative Action Tracking System	EPA	04/17/1995	07/03/1995	08/07/1995
US	RADINFO	Radiation Information Database	Environmental Protection Agency	01/03/2018	01/04/2018	04/13/2018
US	RCRA NonGen / NLR	RCRA - Non Generators / No Longer Regulated	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-CESQG	RCRA - Conditionally Exempt Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-LQG	RCRA - Large Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-SQG	RCRA - Small Quantity Generators	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RCRA-TSDF	RCRA - Treatment, Storage and Disposal	Environmental Protection Agency	12/11/2017	12/26/2017	02/09/2018
US	RMP	Risk Management Plans	Environmental Protection Agency	11/02/2017	11/17/2017	12/08/2017
US	ROD	Records Of Decision	EPA	01/09/2018	02/06/2018	05/11/2018
US	SCRD DRYCLEANERS	State Coalition for Remediation of Drycleaners Listing	Environmental Protection Agency	01/01/2017	02/03/2017	04/07/2017
US	SEMS	Superfund Enterprise Management System	EPA	01/09/2018	02/06/2018	04/13/2018
US	SEMS-ARCHIVE	Superfund Enterprise Management System Archive	EPA	01/09/2018	02/06/2018	04/13/2018
US	SSTS	Section 7 Tracking Systems	EPA	12/31/2009	12/10/2010	02/25/2011
US	TRIS	Toxic Chemical Release Inventory System	EPA	12/31/2016	01/10/2018	01/12/2018
US	TSCA	Toxic Substances Control Act	EPA	12/31/2016	06/21/2017	01/05/2018
US	UMTRA	Uranium Mill Tailings Sites	Department of Energy	06/23/2017	10/11/2017	11/03/2017
US	US AIRS (AFS)	Aerometric Information Retrieval System Facility Subsystem (	EPA	10/12/2016	10/26/2016	02/03/2017
US	US AIRS MINOR	Air Facility System Data	EPA	10/12/2016	10/26/2016	02/03/2017
US	US BROWNFIELDS	A Listing of Brownfields Sites	Environmental Protection Agency	03/19/2018	03/21/2018	06/08/2018
US	US CDL	Clandestine Drug Labs	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US ENG CONTROLS	Engineering Controls Sites List	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
US	US FIN ASSUR	Financial Assurance Information	Environmental Protection Agency	01/11/2018	01/19/2018	03/02/2018
US	US HIST CDL	National Clandestine Laboratory Register	Drug Enforcement Administration	02/22/2018	03/01/2018	05/11/2018
US	US INST CONTROL	Sites with Institutional Controls	Environmental Protection Agency	02/13/2018	02/27/2018	05/11/2018
US	US MINES	Mines Master Index File	Department of Labor, Mine Safety and Health A	01/25/2018	02/28/2018	05/11/2018
US	US MINES 2	Ferrous and Nonferrous Metal Mines Database Listing	USGS	12/05/2005	02/29/2008	04/18/2008
US	US MINES 3	Active Mines & Mineral Plants Database Listing	USGS	04/14/2011	06/08/2011	09/13/2011
US	UXO	Unexploded Ordnance Sites	Department of Defense	09/30/2016	10/31/2017	01/12/2018
NJ	NJ MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	04/11/2017	07/27/2017
NY	NY MANIFEST	Facility and Manifest Data	Department of Environmental Conservation	04/30/2018	05/03/2018	06/07/2018
PA	PA MANIFEST	Manifest Information	Department of Environmental Protection	12/31/2016	07/25/2017	09/25/2017
RI	RI MANIFEST	Manifest information	Department of Environmental Management	12/31/2017	02/23/2018	04/09/2018
VT	VT MANIFEST	Hazardous Waste Manifest Data	Department of Environmental Conservation	01/12/2018	01/19/2018	02/13/2018
WI	WI MANIFEST	Manifest Information	Department of Natural Resources	12/31/2016	04/13/2017	07/14/2017
US	AHA Hospitals	Sensitive Receptor: AHA Hospitals	American Hospital Association, Inc.			
US	Medical Centers	Sensitive Receptor: Medical Centers	Centers for Medicare & Medicaid Services			
US	Nursing Homes	Sensitive Receptor: Nursing Homes	National Institutes of Health			
US	Public Schools	Sensitive Receptor: Public Schools	National Center for Education Statistics			
US	Private Schools	Sensitive Receptor: Private Schools	National Center for Education Statistics			
CT	Daycare Centers	Sensitive Receptor: Licensed Child Care Facilities	Department of Public Health			

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

St	Acronym	Full Name	Government Agency	Gov Date	Arvl. Date	Active Date
US	Flood Zones	100-year and 500-year flood zones	Emergency Management Agency (FEMA)			
US	NWI	National Wetlands Inventory	U.S. Fish and Wildlife Service			
CT	State Wetlands	Tidal Wetlands	Department of Energy & Environmental Protection			
US	Topographic Map		U.S. Geological Survey			
US	Oil/Gas Pipelines		PennWell Corporation			
US	Electric Power Transmission Line Data		PennWell Corporation			

STREET AND ADDRESS INFORMATION

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ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066

Inquiry Number:
June 28, 2018

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

Section 3: Databases and Update Information. . . . . Page 11

Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **ANOCOIL LLC** 60 E MAIN ST ROCKVILLE, CT 06066 EDR ID #1017428459 EPA #110000315374
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	**YES - p4**
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	**YES - p5**
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	2

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility is an Hazardous Waste/Enforcement and Compliance History Site (DocketHWC/ECHO)

DATABASE: Hazardous Waste/Enforcement and Compliance History Sites (DocketHWC/ECHO)

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066
EDR ID #1017428459

ECHO:

Envid:	1017428459
Registry ID:	110000315374
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110000315374

MULTIMEDIA

Facility is listed in EPA's index system

DATABASE: Facility Index System (FINDS)

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066
EDR ID #1017428459

This site is listed in the Federal FINDS database. The FINDS database may contain references to records from government databases included elsewhere in the report.
Please note: the FINDS database may also contain references to out of date records formerly associated with the site.

Registry ID:	110000315374
Facility Name:	ANOCOIL LLC
Facility Address:	60 E MAIN ST ROCKVILLE, CT 06066
Facility URL:	http://ofmpub.epa.gov/enviro/fii_query_detail.disp_program_facility?p_registry_id=110000315374
FIPS:	09013
Fed Facility:	Not reported
Tribal Land:	Not reported
Tribal Name:	Not reported
Congressional District:	02
Hydrologic Unit Code:	01080205
EPA Region:	01
Site Type:	STATIONARY
Date Created:	01-MAR-2000 00:00:00
Date Updated:	25-MAY-2017 11:40:51
U.S-Mexico Border:	Not reported
Latitude:	41.867431
Longitude:	-72.444917
Horizontal Collection:	INTERPOLATION-MAP
Horizontal Accuracy:	30
Reference Point:	CENTER OF A FACILITY OR STATION
Horizontal Datum:	NAD83
Coordinates Source:	Not reported

Environmental Interest/Information System

NCDB (National Compliance Data Base) supports implementation of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) and the Toxic Substances Control Act (TSCA). The system tracks inspections in regions and states with cooperative agreements, enforcement actions, and settlements.

AFS (Aerometric Information Retrieval System (AIRS) Facility Subsystem) replaces the former Compliance Data System (CDS), the National Emission Data System (NEDS), and the Storage and Retrieval of Aerometric Data (SAROAD). AIRS is the national repository for information concerning airborne pollution in the United States. AFS is used to track emissions and compliance data from industrial plants. AFS data are utilized by states to prepare State Implementation Plans to comply with regulatory programs and by EPA as an input for the estimation of total national emissions. AFS is undergoing a major redesign to support facility operating permits required under Title V of the Clean Air Act.

US EPA TRIS (Toxics Release Inventory System) contains information from facilities on the amounts of over 300 listed toxic chemicals that these facilities release directly to air, water, land, or that are transported off-site.

US National Pollutant Discharge Elimination System (NPDES) module of the Compliance Information System (ICIS) tracks surface water permits issued under the Clean Water Act. Under NPDES, all facilities that discharge pollutants from any point source into waters of the United States are required to obtain a permit. The permit will likely contain limits on what can be discharged, impose monitoring and reporting requirements, and include other provisions to ensure that the discharge does not adversely affect water quality.

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

AIR MINOR

Connecticut Site Information Management System (SIMS) is part of a suite of web-based applications designed to allow the Connecticut Department of Environmental Protection (DEP) staff to harmonize environmental interest information from disparate systems in a single agency-wide data repository (known as CFI). SIMS provides tools for identifying and resolving duplicate

data, querying data (using both tabular and geospatial methods), and viewing/maintaining documents associated to the data.

ICIS (Integrated Compliance Information System) is the Integrated Compliance Information System and provides a database that, when complete, will contain integrated Enforcement and Compliance information across most of EPA's programs. The vision for ICIS is to replace EPA's independent databases that contain Enforcement data with a single repository for that information. Currently, ICIS contains all Federal Administrative and Judicial enforcement actions. This information is maintained in ICIS by EPA in the Regional offices and it Headquarters. A future release of ICIS will replace the Permit Compliance System (PCS) which supports the NPDES and will integrate that information with Federal actions already in the system. ICIS also has the capability to track other activities occurring in the Region that support Compliance and Enforcement programs. These include; Incident Tracking, Compliance Assistance, and Compliance Monitoring.

Program System ID:	CT0020389
Program Sys. Name:	NPDES
Env. Interest Type:	ICIS-NPDES NON-MAJOR
Env. Interest Start Dt.:	20-JAN-1975 00:00:00
Start Date Qualifier:	ORIGINAL PERMIT ISSUE DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	ICIS
Active Code:	Not reported

Program System ID:	CTD018800458
Program Sys. Name:	RCRAINFO
Env. Interest Type:	SQG
Env. Interest Start Dt.:	04-JUN-1986 00:00:00
Start Date Qualifier:	FIRST NOTIFICATION DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	RCRAINFO
Active Code:	Not reported

Program System ID:	3600069888
Program Sys. Name:	ICIS
Env. Interest Type:	ENFORCEMENT/COMPLIANCE ACTIVITY
Env. Interest Start Dt.:	18-JUN-2015 00:00:00
Start Date Qualifier:	ACTUAL ACTIVITY DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	ICIS
Active Code:	Not reported

Program System ID:	CT0000000901301219
Program Sys. Name:	AIR
Env. Interest Type:	AIR MINOR
Env. Interest Start Dt.:	19-OCT-2014 00:00:00
Start Date Qualifier:	OPR
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	ICIS
Active Code:	Not reported

Program System ID:	06066NCLCR60EAS
Program Sys. Name:	TRIS
Env. Interest Type:	TRI REPORTER
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	TRIS
Active Code:	Not reported

Program System ID:	I01#19910524CT021 1
Program Sys. Name:	NCDB
Env. Interest Type:	COMPLIANCE ACTIVITY
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	NCDB
Active Code:	Not reported

Program System ID:	1536420
Program Sys. Name:	SIMS
Env. Interest Type:	STATE MASTER
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	SIMS

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Active Code:	Not reported
Program System ID:	CTP001242
Program Sys. Name:	NPDES
Env. Interest Type:	ICIS-NPDES NON-MAJOR
Env. Interest Start Dt.:	30-MAY-1989 00:00:00
Start Date Qualifier:	ORIGINAL PERMIT ISSUE DATE
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	ICIS
Active Code:	Not reported
Program System ID:	0901301219
Program Sys. Name:	AIRS/AFS
Env. Interest Type:	AIR MINOR
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	AIRS/AFS
Active Code:	Not reported
Program System ID:	1501867
Program Sys. Name:	SIMS
Env. Interest Type:	STATE MASTER
Env. Interest Start Dt.:	Not reported
Start Date Qualifier:	Not reported
Env. Interest End Dt.:	Not reported
End Date Qualifier:	Not reported
Data Source:	SIMS
Active Code:	Not reported
Alternative Name:	ANO COIL
Alternative Name:	ANO-COIL CORPORATION
Alternative Name:	ANOCOIL
Alternative Name:	ANOCOIL CORP ROCKVILLE
Alternative Name:	ANOCOIL CORPORATION
Alternative Name:	ANOCOIL LLC
Contact Name:	DICK BOMBARDIER
Contact Type:	REGULATORY CONTACT
Contact Title:	Not reported
Contact Telephone:	(860) 871-1200
Contact Fax:	Not reported
Contact email:	DBOMBARDIER@ANOCOIL.COM
Contact Address:	Not reported Not reported
Contact Name:	HOWARD A. FROMSON
Contact Type:	PUBLIC CONTACT
Contact Title:	Not reported
Contact Telephone:	(860) 871-1200
Contact Fax:	Not reported
Contact email:	Not reported
Contact Address:	Not reported Not reported
Contact Name:	JAMES F WINKLER
Contact Type:	REGULATORY CONTACT
Contact Title:	Not reported
Contact Telephone:	(860) 871-1200
Contact Fax:	Not reported
Contact email:	Not reported
Contact Address:	Not reported Not reported
NAICS Code:	332813(ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING.)
SIC Code:	3471(ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING)
Organization Name:	ANOCOIL CORP
Affiliation Type:	PARENT COMPANY
Organization Type:	PRIVATE
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	8608711200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Organization Name:	HOWARD A. FROMSON
Affiliation Type:	OWNER
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	(203) 871-1200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANO-COIL CORPORATION
Affiliation Type:	MAILING ADDRESS
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	Not reported
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANOCOIL LLC
Affiliation Type:	OPERATOR
Organization Type:	PRIVATE
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	Not reported
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANOCOIL CORPORATION
Affiliation Type:	OWNER
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	(860) 871-1200
Alternative Number:	86087101200
Fax Number:	8608720534
Email:	DBUJESE@ANOCOIL.COM
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	STEVE DERMAN
Affiliation Type:	OTHER CONTACT
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	2038711200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	PA ACQUISITION HOLDCO LLC
Affiliation Type:	OWNER
Organization Type:	PRIVATE
DUNS Number:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Division Name:	Not reported
Telephone Number:	860 871 1200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANO-COIL CORPORATION
Affiliation Type:	OWNER
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	8608711200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANO-COIL CORP
Affiliation Type:	OTHER CONTACT
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	8608711200
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANOCOIL CORPORATION
Affiliation Type:	OWNER
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	(860) 871-1200
Alternative Number:	8608701200
Fax Number:	8608720534
Email:	DBUJESE@ANOCOIL.COM
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Organization Name:	ANO-COIL CORPORATION
Affiliation Type:	MAILING ADDRESS
Organization Type:	UNKNOWN
DUNS Number:	Not reported
Division Name:	Not reported
Telephone Number:	Not reported
Alternative Number:	Not reported
Fax Number:	Not reported
Email:	Not reported
EIN:	Not reported
State Business ID:	Not reported
Parent Name:	Not reported
Parent DUNS:	Not reported
Mailing Address:	Not reported
	Not reported

Supplemental Interest:	STATE MASTER
PGM Sys ID:	SIMS
Supplemental PGM Sys ID:	CT0020389
Start Date:	20-NOV-2006 00:00:00
Start Date Qualifier:	PERMIT ISSUE DATE
End Date:	02-DEC-2015 00:00:00
End Date Qualifier:	PERMIT EXPIRE DATE
Date Source:	SIMS
Last Reported:	09-JAN-2016 00:00:00

Date Created: 06-DEC-2011 15:41:27
Date Updated: Not reported

Supplemental Interest: STATE MASTER
PGM Sys ID: SIMS
Supplemental PGM Sys ID: 187-0075-R
Start Date: 03-JUL-2039 00:00:00
Start Date Qualifier: PERMIT ISSUE DATE
End Date: Not reported
End Date Qualifier: Not reported
Date Source: SIMS
Last Reported: 09-FEB-2003 00:00:00
Date Created: 06-DEC-2011 15:41:32
Date Updated: Not reported

Supplemental Interest: STATE MASTER
PGM Sys ID: SIMS
Supplemental PGM Sys ID: 146-9846
Start Date: 17-APR-1996 00:00:00
Start Date Qualifier: REGISTRATION START DATE
End Date: Not reported
End Date Qualifier: Not reported
Date Source: SIMS
Last Reported: 09-JUL-2013 00:00:00
Date Created: 06-DEC-2011 15:41:36
Date Updated: Not reported

Supplemental Interest: STATE MASTER
PGM Sys ID: SIMS
Supplemental PGM Sys ID: SP0001242
Start Date: 11-AUG-2011 00:00:00
Start Date Qualifier: PERMIT ISSUE DATE
End Date: 10-AUG-2016 00:00:00
End Date Qualifier: PERMIT EXPIRE DATE
Date Source: SIMS
Last Reported: 11-AUG-2012 00:00:00
Date Created: 06-DEC-2011 15:41:40
Date Updated: Not reported

Supplemental Interest: ICIS-NPDES NON-MAJOR
PGM Sys ID: ICIS
Supplemental PGM Sys ID: Not reported
Start Date: 09-JAN-1997 00:00:00
Start Date Qualifier: ACTUAL ACTIVITY DATE
End Date: Not reported
End Date Qualifier: Not reported
Date Source: ICIS
Last Reported: 07-OCT-2009 13:08:06
Date Created: 28-FEB-2011 12:48:28
Date Updated: Not reported

Supplemental Interest: STATE MASTER
PGM Sys ID: SIMS
Supplemental PGM Sys ID: 187-0074-R
Start Date: 22-SEP-2038 00:00:00
Start Date Qualifier: PERMIT ISSUE DATE
End Date: Not reported
End Date Qualifier: Not reported
Date Source: SIMS
Last Reported: 09-FEB-2003 00:00:00
Date Created: 06-DEC-2011 15:41:49
Date Updated: Not reported

Supplemental Interest: ICIS-NPDES NON-MAJOR
PGM Sys ID: ICIS
Supplemental PGM Sys ID: Not reported
Start Date: 14-SEP-2006 00:00:00
Start Date Qualifier: ACTUAL ACTIVITY DATE
End Date: Not reported
End Date Qualifier: Not reported
Date Source: ICIS
Last Reported: 18-JUL-2011 11:46:22
Date Created: 03-DEC-2011 15:56:47
Date Updated: Not reported

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

FINDS: Facility Index System/Facility Registry System
Source: EPA
Telephone: Not reported
Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/21/2018
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/06/2018
Date of Next Scheduled Update: 09/17/2018

ECHO: Enforcement & Compliance History Information
Source: Environmental Protection Agency
Telephone: 202-564-2280
ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 02/25/2018
Database Release Frequency: Quarterly
Date of Last EDR Contact: 06/06/2018
Date of Next Scheduled Update: 09/17/2018

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066

Inquiry Number:
June 28, 2018

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

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Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

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Name, source, update dates, contact phone number and description of each of the databases for this report.

Thank you for your business.
Please contact EDR at 1-800-352-0050
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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 **ANOCOIL LLC** 60 E MAIN ST ROCKVILLE, CT 06066 EDR ID #1016146280 EPA #06066NCLCR60
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	NO
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	**YES - p4**
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

MULTIMEDIA

Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313

DATABASE: Toxic Chemical Release Inventory System (TRIS)

ANOCOIL LLC
60 E MAIN ST
ROCKVILLE, CT 06066
EDR ID #1016146280

TRIS:

TRIS ID:	06066NCLCR60EAS
Reporting Year:	2016
Title of Certifying Official:	PRESIDENT
Certifying official:	DAVID BUJESE
Mailing Name:	ANOCOIL LLC
Mailing Address:	60 E MAIN ST ROCKVILLE, CT 06066
Contact:	DAVID BUJESE
Contact Telephone:	(860) 871-1200
NAICS codes:	332813
NAICS origin:	Not reported
Reported Latitude:	41.866752
Reported Longitude:	-72.440917
DUNS Number:	018800045
EPA ID:	Not reported
RCRA ID:	Not reported
NPDES ID:	Not reported
UIC ID:	Not reported
Parent Name:	PRESSTEK LLC
Parent DUNS Number:	183615426
CAS Number:	N511
Chemical Name:	NITRATE COMPOUNDS
Chemical is produced in facility:	YES
Chemical is imported:	NO
Chemical is for on-site use:	NO
Max chem. qty (lbs) code:	04
Estimated qty of fugitive air release pounds/yr:	NA
Estimated qty of stack air release in pounds/yr:	NA
Total air emissions:	0
Affected Stream Name:	NA
Water Stream Release:	Not reported
Percentage of total qty by weight of stream release:	0
Total number of streams reported as receiving releases:	0
Total amount of all stream release:	0
Total qty injected underground onsite to Class I well:	NA
Total qty injected underground onsite to Class II-V well underground injection:	NA
Total underground well injection in pounds/year:	0
Estimated qty released to RCRA subtitle C Landfills:	NA
Non-RCRA Landfills Release:	NA
Land treatment/farming releases:	NA
Surface impoundments release:	0
Other disposal:	NA
Tot. onsite medium rel:	0
Metals offsite transfers:	0
Tot. reprtd storage-only:	0
POTWS offsite transfers:	0
Underground injection:	0
Tot. qty reported as landfill/disposal surface impoundments:	0
Tot. qty reported as land treatment:	0
Other land disposal:	0
Other offsite mgmnt:	0
Waster broker transfers:	0
Tot. offsite transfers:	0
Tot. offsite transfers for further waste management:	24523

Metal indicator:	NO
Contact email:	DBUJESE@PRESSTEK.COM
Revision code 1:	Not reported
Revision code 2:	Not reported
Facility BIA Code:	Not reported
Facility BIA Name:	Not reported
TRIS ID:	06066NCLCR60EAS
Reporting Year:	2016
Title of Certifying Official:	PRESIDENT
Certifying official:	DAVID BUJESE
Mailing Name:	ANOCOIL LLC
Mailing Address:	60 E MAIN ST ROCKVILLE, CT 06066
Contact:	DAVID BUJESE

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Contact Telephone: (860) 871-1200
NAICS codes: 332813
NAICS origin: Not reported
Reported Latitude: 41.866752
Reported Longitude: -72.440917
DUNS Number: 018800045
EPA ID: Not reported
RCRA ID: Not reported
NPDES ID: Not reported
UIC ID: Not reported
Parent Name: PRESSTEK LLC
Parent DUNS Number: 183615426
CAS Number: 007697372
Chemical Name: NITRIC ACID
Chemical is produced in facility: NO
Chemical is imported: NO
Chemical is for on-site use: NO
Max chem. qty (lbs) code: 04
Estimated qty of fugitive air release pounds/yr: 0
Estimated qty of stack air release in pounds/yr: 0
Total air emissions: 0
Affected Stream Name: NA
Water Stream Release: Not reported
Percentage of total qty by weight of stream release: 0
Total number of streams reported as receiving releases: 0
Total amount of all stream release: 0
Total qty injected underground onsite to Class I well: NA
Total qty injected underground onsite to Class II-V well underground injection: NA
Total underground well injection in pounds/year: 0
Estimated qty released to RCRA subtitle C Landfills: NA
Non-RCRA Landfills Release: NA
Land treatment/farming releases: NA
Surface impoundments release: 0
Other disposal: NA
Tot. onsite medium rel: 0
Metals offsite transfers: 0
Tot. reprtd storage-only: 0
POTWS offsite transfers: 0
Underground injection: 0
Tot. qty reported as landfill/disposal surface impoundments: 0
Tot. qty reported as land treatment: 0
Other land disposal: 0
Other offsite mgmnt: 0
Waster broker transfers: 0
Tot. offsite transfers: 0
Tot. offsite transfers for further waste management: 0

Metal indicator: NO
Contact email: DBUJESE@PRESSTEK.COM
Revision code 1: Not reported
Revision code 2: Not reported
Facility BIA Code: Not reported
Facility BIA Name: Not reported
Chemical Name: NITRIC ACID
NAICS codes: 332813
NAICS origin: Not reported
Qty released prior year: 0
Qty released current yr: 0
Qty rel. following year: 0
Qty released of Catastrophic/one-time event: Not reported
Metal indicator: NO
Contact email: DBUJESE@PRESSTEK.COM
Revision code 1: Not reported
Revision code 2: Not reported
Facility BIA Code: Not reported
Facility BIA Name: Not reported

Chemical Name: NITRATE COMPOUNDS
NAICS codes: 332813
NAICS origin: Not reported
Qty released prior year: 28343
Qty released current yr: 2452.3
Qty rel. following year: 2452.3
Qty released of Catastrophic/one-time event: Not reported
Metal indicator: NO
Contact email: DBUJESE@PRESSTEK.COM
Revision code 1: Not reported
Revision code 2: Not reported
Facility BIA Code: Not reported
Facility BIA Name: Not reported

CAS #: 007697372
NAICS codes: 332813
NAICS origin: Not reported
DCN: 1316215113097

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

POTW Name:	VERNON MUNICIPAL TREATMENT PLANT
POTW Address:	100 WINDSORVILLE ROAD VERNON, CT CT
Metal indicator:	NO
Contact email:	DBUJESE@PRESSTEK.COM
Revision code 1:	Not reported
Revision code 2:	Not reported
Facility BIA Code:	Not reported
Facility BIA Name:	Not reported

CAS #:	N511
NAICS codes:	332813
NAICS origin:	Not reported
DCN:	1316215113085
POTW Name:	VERNON MUNICIPAL TREATMENT PLANT
POTW Address:	100 WINDSORVILLE ROAD VERNON, CT CT
Metal indicator:	NO
Contact email:	DBUJESE@PRESSTEK.COM
Revision code 1:	Not reported
Revision code 2:	Not reported
Facility BIA Code:	Not reported
Facility BIA Name:	Not reported

NAICS codes:	332813
NAICS origin:	Not reported
Facility is federal:	NO
Facility is GOCO:	NO
Data covers entire fac.:	YES
Data covers part of fac.:	NO
Contact email:	DBUJESE@PRESSTEK.COM
Facility BIA Code:	Not reported
Facility BIA Name:	Not reported

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

TRIS: Toxic Chemical Release Inventory System
Source: EPA
Telephone: 202-566-0250
Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2016
Database Release Frequency: Annually

Date of Last EDR Contact: 05/25/2018
Date of Next Scheduled Update: 09/03/2018

60 EAST MAIN STREET
ROCKVILLE, CT 06066

Inquiry Number:
June 28, 2018

EDR Site Report™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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The EDR-Site Report™ is a comprehensive presentation of government filings on a facility identified in a search of federal, state and local environmental databases. The report is divided into three sections:

Section 1: Facility Summary . . . . . Page 3

Summary of facility filings including a review of the following areas: waste management, waste disposal, multi-media issues, and Superfund liability.

Section 2: Facility Detail Reports . . . . . Page 4

All available detailed information from databases where sites are identified.

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Name, source, update dates, contact phone number and description of each of the databases for this report.

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SECTION 1: FACILITY SUMMARY

FACILITY AREA	FACILITY 1 60 EAST MAIN STREET ROCKVILLE, CT 06066 EDR ID #93158270
WASTE MANAGEMENT Facility generates hazardous waste (RCRA)	NO
Facility treats, stores, or disposes of hazardous waste on-site (RCRA/TSDF)	NO
Facility has received Notices of Violations (RCRA/VIOL)	NO
Facility has been subject to RCRA administrative actions (RAATS)	NO
Facility has been subject to corrective actions (CORRACTS)	NO
Facility handles PCBs (PADS)	NO
Facility uses radioactive materials (MLTS)	NO
Facility is a FUSRAP Site	NO
Facility is a UXO Site	NO
Facility is a FUELS Site	NO
Facility is an DockHWC/ECHO Site	NO
Facility manages registered aboveground storage tanks (AST)	NO
Facility manages registered underground storage tanks (UST)	NO
Facility has reported leaking underground storage tank incidents (LUST)	NO
Facility has reported emergency releases to the soil (ERNS)	**YES - p4**
Facility has reported hazardous material incidents to DOT (HMIRS)	NO
WASTE DISPOSAL Facility is a Superfund Site (NPL)	NO
Facility has a known or suspect abandoned, inactive or uncontrolled hazardous waste site (SEMS)	NO
Facility has a reported Superfund Lien on it (LIENS)	NO
Facility is listed as a state hazardous waste site (SHWS)	NO
Facility has disposed of solid waste on-site (SWF/LF)	NO
MULTIMEDIA Facility uses toxic chemicals and has notified EPA under SARA Title III, Section 313 (TRIS)	NO
Facility produces pesticides and has notified EPA under Section 7 of FIFRA (SSTS)	NO
Facility manufactures or imports toxic chemicals on the TSCA list (TSCA)	NO
Facility has inspections under FIFRA, TSCA or EPCRA (FTTS)	NO
Facility is listed in EPA's index system (FINDS)	NO
Facility is listed in other database records (OTHER)	NO
POTENTIAL SUPERFUND LIABILITY Facility has a list of potentially responsible parties PRP	NO
TOTAL (YES)	1

SECTION 2: FACILITY DETAIL REPORTS

WASTE MANAGEMENT

Facility has reported emergency releases to the soil

DATABASE: Emergency Response Notification System (ERNS)

60 EAST MAIN STREET
ROCKVILLE, CT 06066
EDR ID #93158270

Incident Commons:

NRC Report #:	158270
Description of Incident:	GLASS HEAT EXCHANGER TUBE/ RUPTURED
Type of Incident:	FIXED
Incident Cause:	EQUIPMENT FAILURE
Incident Date Time:	1992-02-15 10:30:00
Incident DTG:	OCCURRED
Incident Location:	Not reported
Loaction Address:	60 EAST MAIN STREET
Location Street 1:	Not reported
Location Street 2:	Not reported
Location Nearest City:	ROCKVILLE
Location State:	CT
Location County:	TOLLAND
Location Zip:	06066
Distance From City:	Not reported
Distance Units:	Not reported
Direction From City:	Not reported
Lat Deg:	Not reported
Lat Min:	Not reported
Lat Sec:	Not reported
Lat Quad:	Not reported
Long Deg:	Not reported
Long Min:	Not reported
Long Sec:	Not reported
Long Quad:	Not reported
Location Section:	Not reported
Location Township:	Not reported
Location range:	Not reported
Potential Range:	Not reported

Incidents:

NRC Report #:	158270
Aircraft Type:	UNKNOWN
Aircraft Model:	Not reported
Aircraft ID:	Not reported
Aircraft Fuel Capacity:	Not reported
Aircraft Fuel Capacity Units:	Not reported
Aircraft Fuel on Board:	Not reported
Aircraft Fuel on Board Units:	Not reported
Aircraft Spot Number:	Not reported
Aircraft Hanger:	Not reported
Aircraft Runway Number:	Not reported
Road Mile Marker:	Not reported
Building ID:	Not reported
Type of Fixed Object:	UNKNOWN
Power Generating Facility:	U
Generating Capacity:	Not reported
Type of Fuel:	Not reported
NPDES:	Not reported
NPDES Compliance:	U
Pipeline Type:	UNKNOWN
DOT Regulated:	U
Pipeline Above Ground:	ABOVE
Exposed Underwater:	U
Pipeline Covered:	U
Railroad Hotline:	N
Grade Crossing:	N
Location Subdivision:	Not reported
Railroad Milepost:	UNKNOWN
Type Vehicle Involved:	UNKNOWN
Crossing Device Type:	Not reported
Device Operational:	Y
DOT Crossing Number:	Not reported
Brake Failure:	N
Description of Tank:	Not reported
Tank Above Ground:	ABOVE
Transportable Container:	U
Tank Regulated:	U
Tank Regulated By:	Not reported

SECTION 2: FACILITY DETAIL REPORTS

...Continued...

Tank ID:	Not reported
Capacity of Tank:	Not reported
Capacity of Tank Units:	Not reported
Actual Amount:	Not reported
Actual Amount Units:	Not reported
Platform Rig Name:	Not reported
Platform Letter:	Not reported
Location Area ID:	Not reported
Location Block ID:	Not reported
OCSG Number:	Not reported
OCSP Number:	Not reported
State Lease Number:	Not reported
Pier Dock Number:	Not reported
Berth Slip Number:	Not reported
Continuous Release Type:	Not reported
Initial Continuous Release No:	Not reported
Continuous Release Permit:	Not reported
Allision:	N
Type of Structure:	Not reported
Structure Name:	Not reported
Structure Operational:	Y
Airbag Deployed:	Not reported
Date Tiem Normal Service:	Not reported
Service Disruption Time:	Not reported
Service Disruption Units:	Not reported
Transit Bus Flag:	Not reported
CR Begin Date:	Not reported
CR End Date:	Not reported
CR Change Date:	Not reported
FBI Contact:	Not reported
FBI Contact Date Time:	Not reported
Sub Part C Testing Req:	XXX
Conductor Testing:	Not reported
Engineer Testing:	Not reported
Trainman Testing:	Not reported
Yard Foreman Testing:	Not reported
RCL Operator Testing:	Not reported
Brakeman Testing:	Not reported
Train Dispatcher Testing:	Not reported
Signalman Testing:	Not reported
Other Employee Testing:	Not reported
Unknown Testing:	Not reported
Passenger Handling:	Not reported
Passenger Route:	XXX
Passenger Delay:	XXX

Incident Details:

NRC Report #:	158270
Fire Involved:	N
Fire Extinguished:	Not reported
Any Evacuations:	N
Number Evacuated:	Not reported
Who Evacuated:	Not reported
Radius of Evacuation:	Not reported
Any Injuries:	U
Number Injured:	Not reported
Number Hospitalized:	Not reported
Any Fatalities:	U
Number Fatalities:	Not reported
Any Damages:	N
Damage Amount:	Not reported
Air Corridor Closed:	Not reported
Air Corridor Desc:	Not reported
Air Closure Time:	Not reported
Waterway Closed:	Not reported
Waterway Desc:	Not reported
Waterway Closure Time:	Not reported
Road Closed:	Not reported
Road Desc:	Not reported
Road Closure Time:	Not reported
Closure Direction:	Not reported
Major Artery:	Not reported
Track Closed:	Not reported
Track Desc:	Not reported
Track Closure Time:	Not reported
Media Interest:	Not reported
Medium Desc:	WATER
Additional Medium Info:	HOCKANUM RIVER
Body of Water:	Not reported
Tributary of:	Not reported
Release Secured:	Not reported
Estimated Duration of Release:	Not reported
Release rate:	Not reported
Desc Remedial Action:	NONE

State Agency on Scene:	Not reported
State Agency Report Number:	Not reported
Other Agency Notified:	Not reported
Weather Conditions:	Not reported
Air Temperature:	Not reported
Wind Speed:	Not reported
Wind Direction:	Not reported
Water Supply Contaminated:	Not reported
Sheen Size:	Not reported
Sheen Color:	Not reported
Direction of Sheen Travel:	Not reported
Sheen Odor Description:	Not reported
Wave Condition:	Not reported
Current Speed:	Not reported
Current Direction:	Not reported
Water Temperature:	Not reported
Track Close Dir:	Not reported
Empl Fatality:	Not reported
Pass Fatality:	Not reported
Community Impact:	Not reported
Wind Speed Unit:	Not reported
Employee Injuries:	Not reported
Passenger Injuries:	Not reported
Occupant Fatality:	Not reported
Current Speed Unit:	Not reported
Road Closure Units:	Not reported
Track CLosure Units:	Not reported
Sheen Size Units:	Not reported
Additional Info:	Not reported
State Agency Notified:	Not reported
Federal Agency Notified:	Not reported
nearest River Mile Marker:	Not reported
Sheen Size Length:	Not reported
Sheen Size Length Units:	Not reported
Sheen Size Width:	Not reported
Sheen Size Width Units:	Not reported
Offshore:	Not reported
Duration Unit:	Not reported
Release Rate Unit:	Not reported
Release Rate Rate:	Not reported
Passengers Transferred:	UNK

Calls:

NRC Report #:	158270
Site ID:	93158270
Date Time Received:	1993-02-16 13:38:05
Date Time Complete:	1993-02-16 13:40:56
Call Type:	INC
Responsible Company:	ANOCOIL CORP
Responsible Org Type:	PRIVATE ENTERPRISE
Responsible City:	ROCKVILLE
Responsible State:	CT
Responsible Zip:	06066
On Behalf:	Not reported
Source:	UNAVAILABLE

Material Involved:

NRC Report #:	158270
Chris Code:	SFA
Case Number:	Not reported
UN Number:	Not reported
Amount of Material:	1450
Unit of Measure:	GALLON(S)
Name of Material:	SULFURIC ACID (25%)
If Reached Water:	YES
Amount in Water:	1450
Unit of Measure Reach Water:	GALLON(S)

SECTION 3: DATABASES AND UPDATE DATES

To maintain currency of the following federal, state and local databases, EDR contacts the appropriate government agency on a monthly or quarterly basis as required.

Elapsed ASTM days: Provides confirmation that this report meets or exceeds the 90-day updating requirement of the ASTM standard.

DATABASES FOUND IN THIS REPORT

ERNS: Emergency Response Notification System
Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/19/2018
Database Release Frequency: Quarterly

Date of Last EDR Contact: 06/27/2018
Date of Next Scheduled Update: 10/08/2018

FUSS & O'NEILL

Appendix D

Soil Boring Logs,
Well Completion Reports,
and Laboratory Reports

(On Thumbdrive)

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **MW-01** Project Number: **2001-454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Fill, NW by parking lot**
Description: **Monitoring Well, Shallow**
Date(s): **04/27/15 – 04/27/15**
Completed Depth: **22.00'**
Total Depth: **22.25'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.00in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 12.00'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 12.00' to: 22.00'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Fill	fm: 0.75'	to: 8.50'
type: Bentonite Pellets	fm: 8.50'	to: 10.50'
type: #0 Sand	fm: 10.50'	to: 22.00'
type: Native Material	fm: 22.00'	to: 22.25'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0–0.5': TOPSOIL, brown (10YR 4/4).		TS		0 ppm
		-18		0.5–1.0': SAND, F–C; trace gravel; trace concrete; trace brick. (Fill).				0 ppm
		N/A		1.0–5.0': SAND, F–M; trace gravel; trace silt/clay; reddish brown (5YR 4/4), dry to moist at 4.0 feet. Compact. No odor. (Fill).				0 ppm
-2	2							
-4	4							
		N/A		5.0–6.0': Same as above, moist. (Fill).				0 ppm
				6.0–7.0': SAND, F–M; trace gravel; trace coal; trace brick; dark brown (10YR 3/3), moist. Compact. No odor. (Fill).				
-6	6	-19		7.0–10': SAND, F–M; some C gravel; trace coal; trace brick; dark brown (10YR 3/3), moist. Compact. No odor. (Fill).				0 ppm
		N/A						0 ppm
-8	8							
						Fl		0 ppm
-10	10	N/A		10–14.5': Same as above. Layers of changing sand grain sizes. (Fill).				0 ppm
				14.5–15': SAND, F–C; little gravel; trace coal; trace brick; trace ash; trace silt/clay; black (10YR 2/1), moist. Compact. No odor. (Fill).				
-12	12							
-14	14							
								0 ppm
		-20		15–17': Same as above, wet. Slight petroleum odor.				0 ppm
				17–18.5': SAND, M; trace gravel; trace river bottom sediments; black (10YR 2/1), wet. Loose. No odor.				
-16	16			18.5–20': SAND, F–C, reddish brown (5YR 4/4), wet. Compact. No odor.				
		N/A						0 ppm

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Township/Range: Vernon, Connecticut

Site Id: MW-01
Project Number: 2001-454 P20

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
-18	18					SP		0 ppm
-20	20			20-22.25': No samples.		NS		
-22	22			End of boring at 22.25 feet.				
-24	24							
-26	26							
-28	28							
-30	30							
-32	32							
-34	34							
-36	36							
-38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-02**
Project Number: **2001-454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Fill, N of NW parking lot**
Description: **Monitoring Well, Shallow**
Date(s): **04/27/15 - 04/27/15**
Completed Depth: **18.00'**
Total Depth: **18.00'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.00in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 8.00'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 8.00' to: 18.00'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Fill	fm: 0.75'	to: 4.00'
type: Bentonite Pellets	fm: 4.00'	to: 6.50'
type: #0 Sand	fm: 6.50'	to: 18.00'
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0-0.5': TOPSOIL, brown (10YR 4/4).		TS		0 ppm
		-22		0.5-5.0': SAND, F-C; trace gravel; reddish brown (5YR 4/4), dry to moist at 4.0 feet. Loose. No odor. (Fill).		Fl		0 ppm
-2	2							
		N/A						
-4	4							
		N/A		Same as above, wet at 10 feet. (Fill).				0 ppm
		-23						
-6	6							
		N/A				Fl		
-8	8							
-10	10	N/A		10-11': Same as above, wet. (Fill).				0 ppm
				11-13': SAND, F-C; trace gravel; trace brick; trace coal; trace wood; black (10YR 2/1), wet. Loose. Faint odor. (Fill).				
		-24		13-15': SAND, F-C; trace gravel; trace silt/clay; black (10YR 2/1), wet. Compact. No odor.				0 ppm
-12	12							
		N/A						0 ppm
-14	14					SP		
				15-18': No samples.				
-16	16					NS		

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Township/Range: Vernon, Connecticut

Site Id: MW-02
Project Number: 2001-454 P20

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
-18	18	N/A		End of boring at 18 feet.				
-20	20							
-22	22							
-24	24							
-26	26							
-28	28							
-30	30							
-32	32							
-34	34							
-36	36							
-38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: MW-03 Project Number: 2001-454 P20	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: Former USTs
Description: Monitoring Well, Shallow
Date(s): 04/27/15 – 04/27/15
Completed Depth: 10.50'
Total Depth: 13.00'
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe
Driller: D. Levesque
Borehole Dia.: 3.25in

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 5.50'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 5.50' to: 10.50'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Fill	fm: 0.75'	to: 2.50'
type: Bentonite Pellets	fm: 2.50'	to: 4.00'
type: #0 Sand	fm: 4.00'	to: 10.50'
type: Fill	fm: 10.50'	to: 13.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0–2.0': SAND, F–C; little silt/clay; black (10YR 2/1), dry. Loose. No odor. (Fill).				0 ppm
				2.0–4.0': SAND, F–C; little silt/clay; trace gravel; trace coal; trace brick; black (10YR 2/1), moist. Loose. No odor. (Fill).				
				4.0–4.25': ROCK/COBBLE.				
-2	2			4.25–5.0': SAND, F–M, dark reddish brown (5YR 3/3), moist. Loose. No odor. (Fill).		FI		0 ppm
-4	4					RK		0 ppm
		N/A		5.0–8.0': Same as above. (Fill).				0 ppm
				8.0–9.0': SAND, F–C; some gravel; little coal; black (10YR 2/1), wet. Compact. Slight petroleum odor. (Fill).				
-6	6			9.0–10': ROCK/COBBLE.		FI		
-8	8	-31						0 ppm
								0 ppm
-10	10	-32, -33		10–11.5': SAND, F–C; some gravel; little coal; black (10YR 2/1), wet. Compact. Strong odor. Rainbow sheen on water. (Fill).		RK		2.8 ppm
				11.5–13': BEDROCK, weathered; some F sand; dry. Petroleum odor.		FI		
		N/A						0 ppm
-12	12	-34				SH		
				Refusal and end of boring at 13 feet.				
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **MW-04** Project Number: **2001-454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD. MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Wastewater, coal house, railroad** Datum:
Description: **Monitoring Well, Shallow** Ground Elevation: **0.00'**
Date(s): **04/28/15 - 04/28/15** Coordinate X: **0.00**
Completed Depth: **10.75'** Coordinate Y: **0.00**
Total Depth: **12.50'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **3.25in**
Drilling Method: **Geoprobe**
Blank Casing: type: PVC dia: 1.50in fm: 0.0' to: 5.75'
Screens: type: Slotted size: 0.010in dia: 1.50in fm: 5.75' to: 10.75'
Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Bentonite Pellets	fm: 0.75'	to: 4.00'
type: #0 Sand	fm: 4.00'	to: 10.75'
type: Fill	fm: 10.75'	to: 12.50'
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		SAND, F-M; layer of shale from 4.5 to 4.75 feet; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).				0 ppm
-2	2	-39						
-4	4	N/A				FI		
		-40		5.0-7.0': SAND, F-C; trace gravel; little coal; dark brown (10YR 3/3), dry. Loose. No odor. (Fill). 7.0-8.0': GRAVEL; some F-M sand; trace brick; brown (10YR 4/4), moist to wet at 7.5 feet. Compact. No odor. (Fill). 8.0-9.0': Gravel and wood; dark grayish brown (10YR 2/2), wet. Compact. (Fill). 9.0-10': COBBLE.				0 ppm
-6	6							
		N/A						0 ppm
-8	8	-41						21.9 ppm
		N/A				BD		
-10	10	N/A		BEDROCK, weathered.				
						SH		
-12	12			Refusal and end of boring at 12.5 feet.				
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-05**
Project Number: **2001-454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Loading bay/coal house**
Description: **Monitoring Well, Shallow**
Date(s): **04/28/15 - 04/28/15**
Completed Depth: **5.50'**
Total Depth: **6.50'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.25in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 0.50'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 0.50' to: 5.50'

Annular Fill:
type: Concrete fm: 0.00' to: 0.50'
type: #0 Sand fm: 0.50' to: 5.50'
type: Fill fm: 5.50' to: 6.50'
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	Vapor
0		N/A		0-0.5': CONCRETE.		CR		
		-42		0.5-1.0': GRAVEL; some F-C sand; brown (10YR 4/4), dry. Loose. No odor. (Subbase).				
				1.0-5.0': SAND, F-C; little gravel; little silt/clay; wet. Compact. No odor.				
-2	2							
						SP		
-4	4							
		N/A		5.0-5.5': Same as above.				
				5.5-6.5': BEDROCK, weathered.				
-6	6					SH		
				Refusal and end of boring at 6.5 feet.				
-8	8							
-10	10							
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **MW-06** Project Number: **2001-454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Acid tank farm**
Description: **Monitoring Well, Shallow**
Date(s): **04/29/15 - 04/29/15**
Completed Depth: **13.00'**
Total Depth: **13.00'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 04/29/2015

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.25in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 3.00'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 3.00' to: 13.00'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Bentonite Pellets	fm: 0.75'	to: 2.00'
type: #0 Sand	fm: 2.00'	to: 13.00'
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0-0.25': ASPHALT		AS		0 ppm
		-55		0.25-5.0': SAND, F-C; little gravel; trace brick; trace concrete; trace coal; dark brown (10YR 3/3), dry. Loose. No odor. (Fill).				
-2	2							
						FI		
		N/A						
-4	4							
		-56		5.0-5.5': Same as above. (Fill).				0 ppm
				5.5-9.0': SAND, F-C; little silt/clay; little gravel; reddish brown (5YR 4/4), wet. Compact. No odor.				0 ppm
-6	6	N/A		9.0-10': SAND, F-C; some cobble/gravel; little silt/clay; reddish brown (5YR 4/4), moist. Compact. No odor.				
-8	8					SP		0 ppm
-10	10			End of boring at 10 feet.				
						NS		
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By:

Project Name: Anocoil
Project Location: Vernon, Connecticut

Site Id: MW-07
Project Number: 2001-454 P20

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: AOC 106, by Court St and river
Description: Monitoring Well, Shallow
Date(s): 06/16/15 – 06/16/15
Completed Depth: 21.00'
Total Depth: 23.00'
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 06/16/2015

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe
Blank Casing: type: PVC dia: 1.50in fm: 0.0' to: 11.00'
Screens: type: Slotted size: 0.010in dia: 1.50in fm: 11.00' to: 21.00'
Annular Fill:
type: Concrete fm: 0.00' to: 0.75'
type: Native Material fm: 0.75' to: 7.00'
type: Bentonite Pellets fm: 7.00' to: 9.00'
type: #0 Sand fm: 9.00' to: 21.00'
type: Native Material fm: 21.00' to: 23.00'

Driller: D. Levesque
Borehole Dia.: 3.25in

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		-004		0-0.5': SAND, F, brown (7.5YR 4/4), dry. Loose. No odor. (Topsoil).		TS		0 ppm
				0.5-5.0': SAND, F-M; little gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).				0 ppm
-2	2							
-4	4	N/A						
		N/A		Same as above, trace coal. (Fill).				0 ppm
-6	6							
-8	8	-007						
-10	10	N/A		10-12.5': Same as above. (Fill).				0 ppm
				12.5-15': SAND, F-M; some coal; little gravel; trace white ash; trace nails; black (5YR 2.5/1), moist. Compact. No odor. (Fill).		Fl		
-12	12							
		-005						5.0 ppm
-14	14							
		N/A		15-16': Same as above. (Fill).				
				16-20': SILT/CLAY; occassional F-M sand layer with little wood fragments; moist to wet at 19 feet. Strong odor.				
-16	16	-006						99.1 ppm

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: JLV

Project Name: Anocoil
Township/Range: Vernon, Connecticut

Site Id: MW-07
Project Number: 2001-454 P20

FUSS & O'NEILL
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MANCHESTER, CONNECTICUT 06040
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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
-18	18							30.2 ppm
		N/A						
-20	20	N/A		20-21': SILT/CLAY; some F-C sand; some gravel; reddiSh brown (5YR 4/4), wet. Loose. Slight odor.				21.8 ppm
				21-22': SAND, F-M; trace gravel; reddish brown.		ML		
				22-23': BEDROCK, weathered, black.		SP		
-22	22					RK		
				Refusal and end of boring at 23 feet.				
-24	24							
-26	26							
-28	28							
-30	30							
-32	32							
-34	34							
-36	36							
-38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: MW-08 Project Number: 2001-454 P20	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: AOC 106, by corner of open river channel
Description: Monitoring Well, Shallow
Date(s): 06/16/15 - 06/16/15
Completed Depth: 15.00'
Total Depth: 15.00'
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 06/16/2015

Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe
Driller: D. Levesque
Borehole Dia.: 3.25in

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 5.00'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 5.00' to: 15.00'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Native Material	fm: 0.75'	to: 3.00'
type: Bentonite Pellets	fm: 3.00'	to: 4.00'
type: #0 Sand	fm: 4.00'	to: 15.00'
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A						
		-015		0-0.2': ASPHALT. 0.2-5.0': SAND, F-C; little gravel; trace concrete from 4.5 to 5.0 feet; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).		AS		0 ppm
-2	2							
						FI		
-4	4	N/A						
		N/A		SAND, F-C; little gravel; black (5YR 2.5/1), moist to wet at 9.0 feet. Loose. No odor.				0 ppm
-6	6							
-8	8							
-10	10	-016		Same as above, trace wood at 15 feet.		SP		0 ppm
-12	12							
-14	14							
				BEDROCK, weathered. Refusal and end of boring at 15 feet.		RK		
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Project Location: Vernon, Connecticut

Site Id: MW-09
Project Number: 2001-454 P20

FUSS & O'NEILL
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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: AOC 8, between driveway and building
Description: Monitoring Well, Shallow
Date(s): 06/16/15 - 06/16/15
Completed Depth: 10.50'
Total Depth: 10.50'
Remarks: Field Instrument: OVM T-1
Development Method: Dry, not developed

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe

Driller: D. Levesque
Borehole Dia.: 3.25in

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 0.50'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 0.50' to: 10.50'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Bentonite Pellets	fm: 0.25'	to: 0.50'
type: #0 Sand	fm: 0.50'	to: 10.50'
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0-3.5': SAND, F-M, black (2.5Y 2.5/1), dry. Loose. No odor. (Topsoil). 3.5-5.0': SAND, F-C; little gravel; trace brick; brown (7.5YR 4/4), dry. Loose. No odor. (Fill).				0 ppm
-2	2					TS		
-4	4							
		N/A		5.0-8.0': SAND, M-C; little gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill). 8.0-10': SAND, F-C; trace cobbles; trace coal; trace brick; black (5YR 2.5/1), moist to wet at 9.0 feet. Loose. No odor. (Fill)..				
-6	6							
						FI		
-8	8	-018						
-10	10	N/A		BEDROCK, weathered, black and white.				
				BEDROCK, weathered. Refusal and end of boring at 10.5 feet.		RK		
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-10**
Project Number: **2001-454 P20**

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Location: **AOC 102, N**
Description: **Monitoring Well, Shallow**
Date(s): **06/18/15 – 06/18/15**
Completed Depth: **19.00'**
Total Depth: **20.00'**
Remarks: Field Instrument: OVM T-1
Development Method: Peristaltic pump on 06/18/2015

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Driller: **D. Levesque**
Borehole Dia.: **3.25in**
Drilling Method: **Geoprobe**
Blank Casing: type: PVC dia: 1.50in fm: 0.0' to: 9.00'
Screens: type: Slotted size: 0.010in dia: 1.50in fm: 9.00' to: 19.00'
Annular Fill:
type: Concrete fm: 0.00' to: 0.75'
type: Native Material fm: 0.75' to: 5.50'
type: Bentonite Pellets fm: 5.50' to: 7.50'
type: #0 Sand fm: 7.50' to: 19.00'
type: Native Material fm: 19.00' to: 20.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0–0.2': ASPHALT.		AS		0 ppm
				0.2–3.0': SAND, F–C; some gravel; occassional asphalt layers; trace coal; trace wood; dark gray, dry. Loose. No odor. (Fill).				
				3.0–3.5': CONCRETE.				
-2	2			3.5–5.0': SAND, F–C; little silt/clay; reddish brown (5YR 4/4).		FI		
		-032						0 ppm
						CR		0 ppm
-4	4							
		N/A		Same as above, some silt/clay.				0 ppm
-6	6	-033						
-8	8	N/A						
-10	10	N/A		Same as above, occassional clay/silt layers; moist at 13 feet.		SP		0 ppm
-12	12							
-14	14							
		N/A		15–17.5': Same as above, wet.				0 ppm
				17.5–20': BEDROCK, weathered; occassional F sand layers.				
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Township/Range: Vernon, Connecticut

Site Id: MW-10
Project Number: 2001-454 P20

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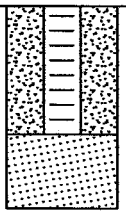
Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
-18	18					RK		
-20	20			BEDROCK. Refusal and end of boring at 20 feet.				
-22	22							
-24	24							
-26	26							
-28	28							
-30	30							
-32	32							
-34	34							
-36	36							
-38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-11**
Project Number: **2001-454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 101, downhill adjacent to river** Datum:
Description: **Monitoring Well, Shallow** Ground Elevation: **0.00'**
Date(s): **06/08/16 – 06/08/16** Coordinate X: **0.00**
Completed Depth: **14.00'** Coordinate Y: **0.00**
Total Depth: **15.00'**
Remarks: Field Instrument: OVM
Development Method: Peristaltic pump on 06/10/2016
No refusal.

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **3.50in**
Drilling Method: **Geoprobe**
Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 4.00'
Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 4.00' to: 14.00'
Annular Fill:
type: Concrete fm: 0.00' to: 0.75'
type: Native Material fm: 0.75' to: 1.00'
type: Bentonite Chips fm: 1.00' to: 2.00'
type: #0 Sand fm: 2.00' to: 14.00'
type: Native Material fm: 14.00' to: 15.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		-01		0–0.5': SAND, F–C; trace gravel; trace roots; dark brown, dry. Loose. No odor. (Topsoil).		TS		0 ppm
				0.5–2.5': SAND, F–C; trace gravel; trace silt/clay; reddish brown, dry. Loose. No odor. (Fill).				0 ppm
		N/A						
-2	2							
-4	4							
		N/A		5.0–10': SAND, F–C; little gravel; trace brick; very dark gray, moist. Loose. No odor. (Fill).		FI		0 ppm
-6	6							
-8	8							
-10	10	N/A		10–10.25': Same as above. (Fill).				0 ppm
				10.25–11.5': GRAVEL; some F–C sand; brown, wet. Loose. No odor.				0 ppm
				11.5–12.5': BEDROCK, weathered; some F–C sand; trace gravel; dark brown, moist. Loose. No odor.		GW		
-12	12							0 ppm
-14	14					RK		
				End of boring at 15 feet.				
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-12**
Project Number: **2001-454 P60**

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860.646.2469

Location: **SE intersection of building and river** Datum:
Description: **Monitoring Well, Shallow** Ground Elevation: **0.00'**
Date(s): **06/08/16 - 06/08/16** Coordinate X: **0.00**
Completed Depth: **14.00'** Coordinate Y: **0.00**
Total Depth: **15.00'**
Remarks: Field Instrument: OVM
Development Method: Peristaltic pump on 06/10/2016
No refusal.

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **3.50in**
Drilling Method: **Geoprobe**
Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 4.00'
Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 4.00' to: 14.00'
Annular Fill:
type: Concrete fm: 0.00' to: 0.75'
type: Native Material fm: 0.75' to: 1.00'
type: Bentonite Chips fm: 1.00' to: 2.00'
type: #0 Sand fm: 2.00' to: 14.00'
type: Native Material fm: 14.00' to: 15.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0-0.5': SAND, F-C; trace gravel; trace roots; dark brown, dry. Loose. No odor. (Topsoil).		TS		0 ppm
				0.5-1.5': SAND, F-C; little gravel; brown, moist. Loose. No odor. (Fill).				0 ppm
				1.5-2.0': SAND, F-C; trace gravel; reddish brown, moist. Loose. No odor. (Fill).				
				2.0-2.5': SAND, F-C; trace gravel; brown, dry. Loose. No odor. (Fill).				
-2	2			2.5-2.75': CONCRETE.		FI		0 ppm
								0 ppm
						CR		0 ppm
-4	4					NR		
		N/A		5.0-7.0': SAND, F-C; some gravel; trace silt/clay; brown to 6.75 feet, then reddish brown, moist to wet at 6.0 feet. Loose. No odor.				0 ppm
-6	6							0 ppm
								0 ppm
						SW		
-8	8							
-10	10	N/A		10-11.5': BEDROCK, weathered; some F sand; little gravel; brown, moist. Compact. No odor.				0 ppm
-12	12					RK		
-14	14							
				End of boring at 15 feet.				
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-13**
Project Number: **2001-454 P60**

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860.646.2469

Location: **SW parking lot**
Description: **Monitoring Well, Shallow**
Date(s): **06/08/16 - 06/08/16**
Completed Depth: **16.00'**
Total Depth: **20.50'**
Remarks: Field Instrument: OVM
Development Method: Peristaltic pump on 06/10/2016

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.25in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 6.00'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 6.00' to: 16.00'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Native Material	fm: 0.75'	to: 2.00'
type: Bentonite Chips	fm: 2.00'	to: 4.00'
type: #0 Sand	fm: 4.00'	to: 16.00'
type: Native Material	fm: 16.00'	to: 20.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0-0.2': ASPHALT.		AS		0 ppm
				0.2-3.0': SAND, F-C; trace gravel; trace asphalt at 1.0 foot; reddish brown, dry. Loose. No odor. (Fill).				
-2	2							
-4	4							
		N/A		5.0-6.5': Same as above. (Fill).				0 ppm
				6.5-7.5': SAND, F-C; trace gravel; trace silt/clay; very dark gray, dry. Loose. No odor. (Fill).				
-6	6							0 ppm
-8	8					FI		
-10	10	N/A		10-11': SAND, F-C; trace gravel; trace silt/clay; trace coal; trace brick; black, wet. Loose. No odor. (Fill).				7.0 ppm
				11-12': SAND, M-C; trace gravel; trace brick; dry to moist at 11.5 feet. Loose. No odor. (Fill).				0 ppm
-12	12							
-14	14							
		N/A		15-15.25': Same as above, wet. (Fill).				0 ppm
				15.25-16.75': SILT/CLAY; trace F sand; layers of decaying wood; very dark brown, wet. Compact. Strong odor. Two different odors. Petroleum odor. (Fill).				540 ppm
-16	16			16.75-17': COBBLES.				

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Township/Range: **Vernon, Connecticut**

Site Id: **MW–13**
Project Number: **2001–454 P60**

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
−18	18					BD		
−20	20			End of boring at 20.5 feet.				
−22	22							
−24	24							
−26	26							
−28	28							
−30	30							
−32	32							
−34	34							
−36	36							
−38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-14**
Project Number: **2001-454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Corner of driveway and Court Street** Datum:
Description: **Monitoring Well, Shallow** Ground Elevation: **0.00'**
Date(s): **06/08/16 - 06/08/16** Coordinate X: **0.00**
Completed Depth: **25.50'** Coordinate Y: **0.00**
Total Depth: **25.50'**
Remarks: Field Instrument: OVM
Development Method: Peristaltic pump on 06/08/2016

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **3.25in**
Drilling Method: **Geoprobe**
Blank Casing:
type: PVC dia: 2.00in fm: 0.0' to: 15.50'
Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 15.50' to: 25.50'
Annular Fill:

type: Concrete	fm: 0.00'	to: 0.75'
type: Native Material	fm: 0.75'	to: 11.00'
type: Bentonite Chips	fm: 11.00'	to: 13.50'
type: #0 Sand	fm: 13.50'	to: 25.50'
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		-03		0-1.0': SAND, F-C; trace gravel; trace roots; light brown, dry. Loose. No odor. (Topsoil).		TS		0 ppm
				1.0-4.0': SAND, F-C; trace gravel; trace coal; trace glass; light brown, dry. Loose. No odor. (Fill).				0 ppm
-2	2	N/A						
-4	4							
		N/A		5.0-8.0': SAND, F-C; trace gravel; light brown, dry. Loose. No odor. (Fill).				0 ppm
-6	6							
-8	8							
-10	10	-04		10-13': SAND, F-C; trace gravel; trace coal at 11 feet; light brown, dry to moist at 12.5 feet. Loose. No odor. (Fill).		FI		0 ppm
-12	12	N/A						
-14	14							
		N/A		15-16': SAND, F-C; trace gravel; light brown, moist. Loose. No odor. (Fill).				0 ppm
				16-17': SAND, F-C; some gravel; trace silt/clay; trace wood; trace brick; very dark brown, moist. Loose. No odor. (Fill).				
-16	16							0 ppm

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Township/Range: **Vernon, Connecticut**

Site Id: MW–14
Project Number: **2001–454 P60**

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
−18	18							
−20	20			20–25.5': No samples taken.				
−22	22					NS		
−24	24							
−26	26			End of boring at 25.5 feet.				
−28	28							
−30	30							
−32	32							
−34	34							
−36	36							
−38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW–15**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 101, adjacent SB–45**
Description: **Monitoring Well, Shallow**
Date(s): **06/09/16 – 06/09/16**
Completed Depth: **20.50'**
Total Depth: **23.00'**
Remarks: Field Instrument: OVM
Development Method: Peristaltic pump on 06/10/2016

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **3.50in**

Blank Casing:
type: PVC dia: 1.50in fm: 0.0' to: 10.50'

Screens:
type: Slotted size: 0.010in dia: 1.50in fm: 10.50' to: 20.50'

Annular Fill:

type: Concrete	fm: 0.00'	to: 1.00'
type: Native Material	fm: 1.00'	to: 6.50'
type: Bentonite Chips	fm: 6.50'	to: 8.50'
type: #0 Sand	fm: 8.50'	to: 20.50'
type: Native Material	fm: 20.50'	to: 23.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction (MP. EL. 0.00)	OVM
0		N/A		0–0.5': SAND, F–C; trace roots; dark brown, dry. Loose. No odor. (Topsoil).		TS		0 ppm
				0.5–2.25': SAND, F–C; trace gravel; brown, dry. Loose. No odor. (Fill).				0 ppm
				2.25–2.75': SAND, F–C; trace gravel; trace brick; trace concrete; very dark brown, dry. Loose. No odor. (Fill).				
–2	2							0 ppm
–4	4							
		N/A		5.0–6.25': Brick and concrete and ash; dry. Loose. No odor. (Fill).				0 ppm
–6	6							
–8	8							
–10	10	–28		10–11.25': Same as above, except stained black from 10.75 to 11.25 feet, moist at 10.75 feet. Black viscous oil from 10.75–11.25 feet. (Fill).				0 ppm
		–28, –15				Fl		8.1 ppm
		–28						
–12	12							
–14	14							
		N/A		15–15.25': Same as above, wet. (Fill).				0 ppm
		–16		15.25–16.5': SAND, F–C; trace gravel; trace cobble; reddish brown, dry. Loose. No odor. (Fill).				0 ppm
–16	16							
		N/A						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Township/Range: **Vernon, Connecticut**

Site Id: **MW–15**
Project Number: **2001–454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	OVM
−18	18							
−20	20	N/A		20–21.25': SAND, F–C; trace gravel; trace silt/clay; trace brick; trace wood; light brown with oil staining. Free oil. (Fill).				0 ppm
				21.25–23': BEDROCK, weathered, gray, dry. Compact. No odor.				0 ppm
−22	22					RK		
				BEDROCK, suspected. Refusal and end of boring at 23 feet.				
−24	24							
−26	26							
−28	28							
−30	30							
−32	32							
−34	34							
−36	36							
−38	38							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-16**
Project Number: **2001-454 P60**

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146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Adjacent stairs in basement storage**
Description: **Monitoring Well, Shallow**
Date(s): **06/09/16 – 06/09/16**
Completed Depth: **1.67'**
Total Depth: **1.70'**
Remarks: Field Instrument: None
Development Method: Dry

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Driller: **D. Levesque**
Borehole Dia.: **3.00in**
Drilling Method: **Hand Auger**

Blank Casing:
type: PVC dia: 2.00in fm: 0.0' to: 0.67'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 0.67' to: 1.67'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: #0 Sand	fm: 0.50'	to: 1.70'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	Vapor
0							MP. EL. 0.00	
				0–1.7': No samples taken.		NS		
-2	2			End of boring at 1.7 feet.				
-4	4							
-6	6							
-8	8							
-10	10							
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-17**
Project Number: **2001-454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Boiler room., adjacent sump**
Description: **Monitoring Well, Shallow**
Date(s): **06/09/16 - 06/09/16**
Completed Depth: **1.50'**
Total Depth: **1.50'**
Remarks: Field Instrument: None
Development Method: Dry

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Hand Auger**
Driller: **D. Levesque**
Borehole Dia.: **3.00in**

Blank Casing:
type: PVC dia: 2.00in fm: 0.0' to: 1.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 1.00' to: 1.50'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Bentonite Chips	fm: 0.50'	to: 0.83'
type: #0 Sand	fm: 0.83'	to: 1.50'
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	Vapor
0				0-1.5': No samples taken.		NS	MP. EL. 0.00	
				End of boring at 1.5 feet.				
-2	2							
-4	4							
-6	6							
-8	8							
-10	10							
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **MW-18**
Project Number: **2001-454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Basement, back storage area, near boiler**
Description: **Monitoring Well, Shallow**
Date(s): **06/10/16 - 06/10/16**
Completed Depth: **2.50'**
Total Depth: **3.00'**
Remarks: Field Instrument: None
Development Method: Peristaltic pump on 06/10/2016
No refusal.

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Hand Auger**
Driller: **M. Vitale**
Borehole Dia.: **4.00in**

Blank Casing:
type: PVC dia: 2.00in fm: 0.0' to: 1.00'

Screens:
type: Slotted size: 0.010in dia: 2.00in fm: 1.00' to: 2.50'

Annular Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: #0 Sand	fm: 0.25'	to: 0.50'
type: Bentonite Chips	fm: 0.50'	to: 1.00'
type: #0 Sand	fm: 1.00'	to: 2.50'
type: Native Material	fm: 2.50'	to: 3.00'

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Well Construction	Vapor
0				0-3.0': No samples taken.			MP. EL. 0.00	
-2	2							
				End of boring at 3.0 feet.				
-4	4							
-6	6							
-8	8							
-10	10							
-12	12							
-14	14							
-16	16							

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: SB–01 Project Number: 2001–454 P20	FUSS&O'NEILL 317 IRON HORSE WAY, SUITE 204 PROVIDENCE, RI 02908 401.861.3070

Location: Boiler room, by trench under stairs Datum:
Description: Soil Boring
Date(s): 04/24/15 – 04/24/15
Total Depth: 1.50'
Remarks: Field Instrument: OVM T–1

Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Driller: D. Levesque
Borehole Dia.: 2.00in
Drilling Method: Hammer Drill/Hand Geoprobe

Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 1.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-01		0–0.6': CONCRETE. 0.6–1.5': SAND, F–C, black (10YR 2/1), moist. Loose. Petroleum odor. Oily.		CR SW	0.7 ppm
				Refusal and end or boring at 1.5 feet.			
-2	2			Depth to adjacent trench: 7 inches			
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–02** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Boiler room by sump** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**

Date(s): **04/24/15 – 04/24/15** Coordinate X: **0.00** Drilling Method: **Hammer Drill/Hand Geoprobe**

Total Depth: **2.50'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 2.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.3': CONCRETE.		CR	0 ppm
		-02		0.3–2.25': SAND, F–C; little ash; little concrete; black (10YR 2/1), wet at 1.25 feet. Loose. No odor. (Fill).		FI	
-2	2	same		2.25–2.5': SAND, F–C, black (10YR 2/1), wet. Loose. No odor. Sheen observed on free liquid.		SW	0 ppm
				Refusal and end of boring at 2.5 feet.			
				Depth to adjacent sump: 13 inches			
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-03**
Project Number: **2001-454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Caustic storage area**
Description: **Soil Boring**
Date(s): **04/24/15 – 04/24/15**
Total Depth: **5.00'**
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**
Drilling Method: **Hammer Drill/Hand Geoprobe**
Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': CONCRETE.		CR	0 ppm
				0.2–0.6': Coal and ash. (Fill).		FI	0 ppm
		-03		0.6–1.0': SAND, F; little silt; reddish brown, dry. Loose. No odor.			0 ppm
				1.0–3.0': Same as above, except F–M sand at 2.7 feet.			
-2	2						
		-04		Same as above, wet.		SW	0 ppm
-4	4						
				End of boring at 5.0 feet.			
				Bottom of sump at 21 inches.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–04** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Basement, W boring**
Description: **Soil Boring**
Date(s): **04/24/15 – 04/24/15**
Total Depth: **5.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**
Drilling Method: **Hammer Drill/Hand Geoprobe**
Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0				0–0.8': CONCRETE.		CR	
		N/A		0.8–1.25': SAND, F–C; some coal; some ash; black (10YR 2/1), dry. Loose. No odor. (Fill).			0 ppm
				1.25–3.0': SAND, F; some silt; reddish brown, moist. Loose. No odor. Stone fragment in tip.			0 ppm
–2	2					FI	
		-05		SAND, F–M; little gravel; dark brown (10YR 3/3), dry. Loose. No odor.			0 ppm
–4	4					SP	
				End of boring at 5.0 feet.			
				Bottom of adjacent discharge sump: 33 inches			
–6	6						
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–05**
Project Number: **2001–454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **S central in basement**
Description: **Soil Boring**
Date(s): **04/24/15 – 04/24/15**
Total Depth: **4.80'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Driller: **D. Levesque**
Borehole Dia.: **2.00in**
Drilling Method: **Hammer Drill/Hand Geoprobe**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 4.80'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0				0–0.8': CONCRETE.		CR	
		-06		0.8–1.0': WOOD. 1.0–2.8': SAND, F–C; little gravel; dark reddish brown, wet. Compact. No odor. Rock in tip of geoprobe.		W1	0 ppm 0 ppm
-2	2						
		-07		2.8–4.2': Same as above, wet. 4.2–4.8': SAND, F–C, gray, wet. Compact. No odor.		SP	0 ppm
-4	4						0 ppm
				End of boring at 4.8 feet.		SW	
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–06** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Basement, S boring** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**

Date(s): **04/24/15 – 04/24/15** Coordinate X: **0.00** Drilling Method: **Hammer Drill/Hand Geoprobe**

Total Depth: **1.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 1.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Vapor
0				0–0.7': CONCRETE.		CR	
		-08		0.7–1.0': Sand, F–C and gravel; dark grayish brown, wet. Compact. No odor. Refusal and end of boring at 1.0 foot.		SP	
				Adjacent sump: 15 inches down			
-2	2						
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–07** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **N basement corner** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**

Date(s): **04/24/15 – 04/24/15** Coordinate X: **0.00** Drilling Method: **Hammer Drill/Hand Geoprobe**

Total Depth: **4.70'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 4.70'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0				0–1.0': CONCRETE.		CR	
		-09		1.0–3.0': SAND, F–C; some silt/clay; little gravel; dark reddish brown to black, dry. Loose. No odor. (Fill).			0 ppm
-2	2						
		-10		3.0–3.8': Same as above. (Fill). 3.8–4.7': Coal and ash and sand and gravel; black, dry. Loose. No odor.		Fl	0 ppm
-4	4						
				Refusal and end of boring at 4.7 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–08** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Grass by unloading area drainage** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **04/24/15 – 04/24/15** Coordinate X: **0.00**
Total Depth: **4.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM T–1

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**
Drilling Method: **Shovel/Hand Geoprobe**
Back Fill:

type: Native Material	fm: 0.00'	to: 4.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Vapor
0				0–1.0': GRAVEL.		GW	
		N/A		1.0–2.0': SAND, F–C; little gravel; dark brown (10YR 3/3).			
-2	2	-12		2.0–4.0': Same as above.		SP	
-4	4			End of boring at 4.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–09** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Railroad** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.25in**

Date(s): **04/27/15 – 04/27/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **10.00'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

Back Fill		
type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': ASPHALT.		AS	0 ppm
		-17		0.25–2.0': GRAVEL; little F–C sand; trace coal; dry. Loose. No odor. (Fill).			
				2.0–5.0': SAND, F–M; trace gravel; reddish brown (5YR 4/4), dry. Loose. No odor.		Fl	
-2	2						0 ppm
-4	4						
		N/A					
		N/A		Same as above, trace cobble; reddish brown (5YR 4/4), moist at 8.0 feet.			0 ppm
-6	6					SP	
-8	8						
-10	10			End of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-11**
Project Number: **2001-454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Foundry, NW in parking lot**
Description: **Soil Boring**
Date(s): **04/27/15 - 04/27/15**
Total Depth: **15.00'**
Remarks: Field Instrument; OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 15.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0-0.25': ASPHALT.		AS	0 ppm
		-21		0.25-5.0': SAND, F-C; little coal at 2.0 feet; trace gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			
-2	2						
		N/A					
-4	4						
		N/A		5.0-9.0': SAND, F-C; trace gravel; trace coal; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
-6	6			9.0-10': SAND, F-C; trace gravel; trace silt/clay; trace coal; black (10YR 2/1). (Fill).		FI	
-8	8						
		-29					0 ppm
-10	10	N/A		10-13': Sand, F-C and silt/clay; trace black wood; reddish brown (5YR 4/4), moist. Compact. No odor. (Fill).			0 ppm
				13-15': SAND, F, brown (10YR 4/4), moist. Loose. No odor.			
-12	12						
		-30					0 ppm
-14	14					SW	
				End of boring at 15 feet.			
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–13** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Foundry, NW @ corner of court** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **04/27/15 – 04/27/15** Coordinate X: **0.00**
Total Depth: **15.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM T–1

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 15.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': TOPSOIL, brown (10YR 4/4).		TS	0 ppm
				0.5–5.0': SAND, F–C; trace gravel; trace coal; reddish brown (5YR 4/4), moist. Loose. No odor. (Fill).		Fl	1.0 ppm
–2	2	–25					
–4	4						
		N/A		5.0–7.5': Same as above. (Fill).			0 ppm
–6	6			7.5–10': SAND, F–C; trace gravel; trace coal; trace plastic bag; trace ceramic; trace glass; trace brick; dark brown (10YR 3/3), moist. Loose. No odor. (Fill).			
		–26				Fl	0 ppm
–8	8						
–10	10	–27		10–13': Same as above, trace wood; wet at 11 feet. (Fill).			0 ppm
				13–15': SAND, F–C, reddish brown (5YR 4/4) to brown (10YR 4/4), F sand; wet. Compact. No odor.			
–12	12						
		N/A					0 ppm
–14	14					SP	
				End of boring at 15 feet.			
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-14**
Project Number: **2001-454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Historical storage**
Description: **Soil Boring**
Date(s): **04/27/15 - 04/27/15**
Total Depth: **5.00'**
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:
type: Native Material fm: 0.00' to: 5.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-28		0-4.0': SAND, F; some silt/clay; black (10YR 2/1), dry. Loose. No odor. (Fill).			0 ppm
				4.0-4.5': SAND, F-C, reddish brown, moist. Compact. No odor. (Fill).		Fl	
-2	2	N/A		4.5-5.0': CONCRETE.			
						Fl	
-4	4						0 ppm
				End of boring at 5.0 feet.		CR	
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–14A** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Historical storage** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**

Date(s): **04/28/15 – 04/28/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **8.50'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 8.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–4.0': SAND, F; some silt/clay; black (10YR 2/1), moist. Loose. No odor. 4.0–5.0': SAND, F–M; some gravel; reddish brown (5YR 4/4), moist. Compact. No odor.			0 ppm
-2	2					SM	
-4	4						0 ppm
		-38		SAND, F–M; some gravel; little silt/clay; reddish brown (5YR 4/4), moist to wet at 8.0 feet. Compact. No odor. Weathered bedrock in tip of geoprobe.			0 ppm
-6	6					SP	
-8	8	N/A					0 ppm
				Refusal and end of boring at 8.5 feet.		SH	
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-16**
Project Number: **2001-454 P20**

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860.646.2469

Location: **Former USTs**
Description: **Soil Boring**
Date(s): **04/27/15 – 04/27/15**
Total Depth: **12.00'**
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:
type: Native Material fm: 0.00' to: 12.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': TOPSOIL, brown (10YR 4/4).		TS	0 ppm
				0.5–1.5': SAND, F–C; little gravel; little concrete; brown (10YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
				1.5–2.0': BRICK.		FI	
				2.0–4.0': CONCRETE.			
-2	2			4.0–5.0': SAND, F, reddish brown (5YR 4/4), dry. Loose. No odor.		B8	
						CR	
-4	4						0 ppm
						SW	
		N/A		5.0–9.0': Same as above.			0 ppm
				9.0–9.5': ROCK.			
-6	6			9.5–10': GRAVEL; some F–C sand; dark brown (10YR 3/3), wet. Loose. No odor.			
						SW	
-8	8						
							0 ppm
						RK	0 ppm
-10	10	-35		10–11.5': Same as above.			0 ppm
				11.5–12': ROCK, weathered; some F sand.		GP	
		N/A					0 ppm
-12	12			Refusal and end of boring at 12 feet.		RK	
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: ISLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–19** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **W loading dock** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**

Date(s): **04/28/15 – 04/28/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **5.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': CONCRETE.		CR	0 ppm
				0.25–2.5': SAND, F–M, reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			
				2.5–4.0': SAND, F–M; some coal; trace concrete; dark grayish brown (10YR 2/2), moist. Loose. No odor. (Fill).			
				4.0–5.0': SAND, F–M, reddish brown (5YR 4/4), moist. Loose. No odor.			
–2	2	-43				FI	0 ppm
–4	4	N/A					0 ppm
				End of boring at 5.0 feet.			
–6	6						
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–20**
Project Number: **2001–454 P20**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **S loading area**
Description: **Soil Boring**
Date(s): **04/28/15 – 04/28/15**
Total Depth: **5.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A -44		0–0.2': ASPHALT. 0.2–0.25': SAND, F–C; little gravel; black (10YR 2/1), dry. Loose. No odor. (Fill). 0.25–1.0': BRICK; some F–C sand; trace gravel; trace concrete; dry. Loose. No odor. (Fill). 1.0–5.0': SAND, F–M, reddish brown (5YR 4/4), dry. Loose. No odor.		AS FI	0 ppm 0 ppm
-2	2	N/A					
-4	4			End of boring at 5.0 feet.		SP	
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: SB–21 Project Number: 2001–454 P20	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: Textile, NW point | Datum: | Logged By: M. Vitale | Driller: D. Levesque
Description: Soil Boring | Ground Elevation: 0.00' | Contractor: Fuss & O'Neill | Borehole Dia.: 2.25in
Date(s): 04/28/15 – 04/28/15 | Coordinate X: 0.00 | Drilling Method: Geoprobe
Total Depth: 5.00' | Coordinate Y: 0.00 | Back Fill:
Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': ASPHALT.		AS	0 ppm
		-45		0.25–2.0': SAND, F–C; some gravel; black (10YR 2/1) to 1.0 foot, then dark yellowish brown (10YR 3/6), dry. Loose. No odor. (Fill).		K1	
				2.0–5.0': SAND, F; little gravel; little silt/clay; dark brown (10YR 3/3), moist to wet at 2.5 feet. Loose. No odor.			0 ppm
-2	2	N/A					0 ppm
						SP	
-4	4						
				End of boring at 5.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% | Checked By: KLV |

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: SB–22 Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Textile, N point** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**

Date(s): **04/28/15 – 04/28/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **5.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 5.00'	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–1.25': SAND, F–C; some gravel; dark yellowish brown (10YR 3/6), dry. Loose. No odor. (Fill).			0 ppm
		-46		1.25–1.5': CONCRETE; trace plastic; trace fabric. (Fill).		Fl	
				1.5–5.0': SAND, F–M; little gravel; little silt/clay; dark reddish brown (5YR 3/3), dry to moist at 2.5 feet. Compact. No odor.			0 ppm
-2	2						0 ppm
						SP	
-4	4	N/A					
				End of boring at 5.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB-23** Project Number: **2001-454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Textile, NE point** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**

Date(s): **04/28/15 - 04/28/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **5.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T-1

type: Native Material	fm: 0.00'	to: 5.00'	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0-1.0': SAND, F-C; some gravel; brown (10YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
		-47		1.0-3.0': SAND, F-M; little gravel; trace concrete; trace coal; dark yellowish brown (10YR 3/6). (Fill).			0 ppm
-2	2			3.0-4.5': SAND, F-C; trace gravel; black (10YR 2/1), moist. Loose. No odor.		FI	
				4.5-5.0': COBBLE/ROCK.			0 ppm
-4	4	N/A				SP	
				End of boring at 5.0 feet.		RK	0 ppm
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB-24** Project Number: **2001-454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Dumpster/trash compactor** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**

Date(s): **04/28/15 – 04/28/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **5.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T-1

type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0-0.25': ASPHALT.		AS	0 ppm
		-48		0.25-5.0': SAND, F-C; trace gravel; trace coal and brick; brown (10YR 4/4), dry. Loose. No odor. (Fill).			
-2	2						
		N/A				FI	
-4	4						
				End of boring at 5.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–25** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Foundry, N boring** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.25in**

Date(s): **04/29/15 – 04/29/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **20.00'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 20.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': TOPSOIL, brown (10YR 4/4), dry. Loose. No odor.		TS	0 ppm
				0.5–5.0': SAND, F–C; trace gravel; occassional 1 inch coal layers; dry. Loose. No odor. (Fill).			0 ppm
–2	2	-51, -52					
–4	4						
		N/A		Layers of brick and concrete and coal and gravel; dry. Loose. No odor. (Fill).			0 ppm
–6	6						
–8	8						
–10	10	N/A		Same as above, except primarily brick. (Fill).		FI	0 ppm
–12	12						
–14	14						
		N/A		Same as above, trace glass; trace fabric. (Fill).			0 ppm
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: SB–25
Project Number: **2001–454 P20**

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
-20	20			End of boring at 20 feet.			
-22	22						
-24	24						
-26	26						
-28	28						
-30	30						
-32	32						
-34	34						
-36	36						
-38	38						
-40	40						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–26** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Loading bay** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.25in**

Date(s): **04/29/15 – 04/29/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **5.00'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 5.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': CONCRETE.		CR	0 ppm
		-53		0.5–5.0': SAND, F–C; little gravel; frequent black coal layers; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			
-2	2						
						Fl	
-4	4	N/A					
				End of boring at 5.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: SB-28 Project Number: 2001-454 P20	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: Cellar floor drain
Description: Soil Boring
Date(s): 04/29/15 – 04/29/15
Total Depth: 4.50'
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe

Driller: D. Levesque
Borehole Dia.: 2.25in

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 4.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': CONCRETE. 0.25–2.5': SAND, F–C; some gravel; dark reddish brown (5YR 3/3) to 1.0 foot, then black (10YR 2/1).		CR	0 ppm 0 ppm
-2	2	-57		Same as above, wet at 4.0 feet.		SP	0 ppm
-4	4			Refusal and end of boring at 4.5 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Project Location: Vernon, Connecticut

Site Id: SB–29
Project Number: 2001–454 P20

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Location: AOC 101a, by Court Street
Description: Soil Boring
Date(s): 06/16/15 – 06/16/15
Total Depth: 25.00'
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe
Back Fill:
type: Native Material fm: 0.00' to: 25.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Driller: D. Levesque
Borehole Dia.: 2.50in

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-001		0–0.5': SAND, F–M, brown (7.5YR 4/4), dry. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–5.0': SAND, F–M; little gravel; trace concrete at 5.0 feet; dark reddish brown (5YR 3/3), dry. (Fill).			0 ppm
-2	2						
-4	4	N/A					
		N/A		Same as above, trace brick; trace tile; trace cobbles. (Fill).			0 ppm
-6	6						
-8	8						
-10	10	N/A		Same as above, trace coal ash at 14 feet; black (5YR 2.5/1), moist. (Fill).		FI	0 ppm
-12	12						
		-002					
-14	14						
		N/A		Same as above, little coal; black (5YR 2.5/1), moist to wet at 18 feet. (Fill).			0 ppm
-16	16						
		-003					
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: Anocoil
Project Location: Vernon, Connecticut

Site Id: SB–29
Project Number: 2001–454 P20

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
-20	20	N/A		SAND, F–C; little gravel; wet. Loose. No odor.			0 ppm
-22	22					SP	
-24	24						
				BEDROCK. Refusal and end of boring at 25 feet.		RK	
-26	26						
-28	28						
-30	30						
-32	32						
-34	34						
-36	36						
-38	38						
-40	40						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–30** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 101, in paved parking lot** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/16/15 – 06/16/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **19.75'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 19.75'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		-008		0.2–5.0': SAND, F–C; little gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			
-2	2						
-4	4	N/A					
		N/A		Same as above, trace coal at 9.5 feet. (Fill).			0 ppm
-6	6						
-8	8						
						Fl	
-10	10	N/A		10–12.5': Same as above, trace coal. (Fill).			0 ppm
				12.5–15': SAND, F–C; trace gravel; trace silt/clay; trace brick; trace coal; black (5YR 2.5/1), moist to wet at 14.5 feet. Loose. No odor. (Fill).			
-12	12						
		-009, -010					0 ppm
-14	14						
		N/A					
		N/A		15–18': Same as above, some decay wood from 16.5 to 17 feet. Faint organic decay odor. (Fill).			1.5 ppm
-16	16			18–19': SAND, M–F; little gravel; reddish brown, wet. Loose. No odor.			
				19–19.75': BEDROCK, weathered, black and white.			
-18	18	-011					

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KW

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: SB-30
Project Number: **2001-454 P20**

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
						SP	
-20	20			BEDROCK. Refusal and end of boring at 19.75 feet.		RK	
-22	22						
-24	24						
-26	26						
-28	28						
-30	30						
-32	32						
-34	34						
-36	36						
-38	38						
-40	40						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–31** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 101, by building and river** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **06/16/15 – 06/16/15** Coordinate X: **0.00**
Total Depth: **14.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM T–1

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**
Drilling Method: **Geoprobe**
Back Fill:

type: Native Material	fm: 0.00'	to: 14.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-012		0–0.5': SAND, F–M, brown (7.5YR 4/4), dry. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–4.0': SAND, F–C; little gravel; reddish brown (5YR 4/4), moist. Loose. No odor. (Fill).			0 ppm
				4.0–5.0': SAND, F–M; little gravel; trace silt/clay; trace brick; black (5YR 2.5/1), moist. Compact. No odor. (Fill).			
-2	2						
-4	4	N/A					1.3 ppm
		-013		5.0–8.0': Same as above, some wood at 8.0 feet; moist. (Fill).			0 ppm
				8.0–10': SAND, F–C; little gravel; little wood; trace brick; reddish brown (5YR 4/4), moist. Loose. No odor. (Fill).			
-6	6					FI	
-8	8	N/A					0 ppm
-10	10	N/A		10–12': Same as above, wet. (Fill).			0 ppm
				12–14': BEDROCK, weathered; little silt/clay; black and white, wet. Loose. No odor.			
-12	12						0 ppm
		-014				RK	
-14	14			BEDROCK. Refusal and end of boring at 14 feet.			
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: SB–36 Project Number: 2001–454 P20	FUSS&O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: AOC 8, SW
Description: Soil Boring
Date(s): 06/16/15 – 06/16/15
Total Depth: 13.50'
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe

Driller: D. Levesque
Borehole Dia.: 2.50in

Back Fill:

type: Native Material	fm: 0.00'	to: 13.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–1.0': SAND, F–M; little silt/clay; black (2.5Y 2.5/1), dry. Loose. No odor. (Topsoil).		TS	0 ppm
				1.0–5.0': SAND, F–C; little gravel; trace foam sheet at 1.0 foot; reddish brown (5YR 4/4). (Fill).			0 ppm
-2	2						
-4	4						
		-023		5.0–8.0': Same as above, reddish brown (5YR 4/4) to brown (7.5YR 4/4), moist. (Fill).			0 ppm
				8.0–10': SAND, F–C; little gravel; trace coal; trace brick; black (5YR 2.5/1), moist. Loose. No odor. (Fill).		FI	
-6	6						
-8	8	-024					0 ppm
-10	10	N/A		BEDROCK, weathered; occassional gravel layer with silt/clay; wet.			0 ppm
-12	12					RK	
				BEDROCK. Refusal and end of boring at 13.5 feet.			
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: MLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–37** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Adjacent MW–03, AOC 7** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/16/15 – 06/16/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **11.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 11.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–2.0': SAND, F; trace silt/clay. (Topsoil). 2.0–2.5': SAND, F; trace silt/clay; trace brick; trace concrete. (Fill). 2.5–5.0': SAND, F–M, reddish brown, dry. Loose. No odor.		TS	0 ppm
-2	2					FI	0 ppm
-4	4						
		-025		Same as above, dry.			0 ppm
-6	6					SP	
-8	8						
-10	10	-026		BEDROCK, weathered, black with oily stain, wet. Strong petroleum odor.			0 ppm
				BEDROCK. Refusal and end of boring at 11 feet.		RK	
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: MLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–38** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 102, S**
Description: **Soil Boring**
Date(s): **06/18/15 – 06/18/15**
Total Depth: **3.00'**
Remarks: Field Instrument: OVM T–1
3 attempts

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Back Fill:
type: Native Material fm: 0.00' to: 3.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.75': Topsoil and asphalt fragments. (Fill).		TS	
		-029		0.75–2.5': SAND, F–C; trace silt/clay; trace brick; brown (7.5YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
-2	2			2.5–3.0': BEDROCK, weathered.		FI	
		N/A					0 ppm
				BEDROCK. Refusal and end of boring at 3.0 feet.		RK	
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–39** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 102, E** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.50in**

Date(s): **06/18/15 – 06/18/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **3.50'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 3.50'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-030		0–1.0': SAND, F–C; trace silt/clay; trace gravel; black (5YR 2.5/1), dry. Loose. No odor.		SP	1.1 ppm
				1.0–1.5': Cobbles and gravel.		BD	0 ppm
				1.5–2.5': SAND, F–C; trace silt/clay; trace gravel; black (2.5YR 2.5/1), dry. Loose. No odor.		SP	0 ppm
-2	2			2.5–3.5': BEDROCK, weathered.		RK	
-4	4			BEDROCK. Refusal and end of boring at 3.5 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–40**
Project Number: **2001–454 P20**

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Location: **AOC 102, center adj to SB–23** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **06/18/15 – 06/18/15** Coordinate X: **0.00**
Total Depth: **9.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM T–1

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 9.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		SAND, F–C; trace gravel; trace roots; trace cobbles; brown (7.5YR 4/4), moist. Loose. No odor.			0 ppm
–2	2						
–4	4					SP	
		-031		SAND, F–C; trace gravel; trace cobbles; brown (7.5YR 4/4), dry. Loose. No odor.			0 ppm
–6	6						
–8	8						
				BEDROCK. Refusal and end of boring at 9.0 feet.		RK	
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By:

Project Name: Anocoil Project Location: Vernon, Connecticut	Site Id: SB–41 Project Number: 2001–454 P20	FUSS & O'NEILL 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: AOC 102, W boring
Description: Soil Boring
Date(s): 06/18/15 – 06/18/15
Total Depth: 10.00'
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: 0.00'
Coordinate X: 0.00
Coordinate Y: 0.00

Logged By: M. Vitale
Contractor: Fuss & O'Neill
Drilling Method: Geoprobe

Driller: D. Levesque
Borehole Dia.: 2.50in

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		–034		0.2–2.0': COAL ASH; some F–C sand; little gravel; black (5YR 2.5/1), dry. Loose. No odor. (Fill).			
				2.0–5.0': SAND, F–C; little silt/clay; trace gravel; reddish brown (5YR 4/4), dry. Loose. No odor.		FI	
–2	2	N/A					0 ppm
–4	4						
		–035		Same as above, moist at 8.0 feet.			0 ppm
–6	6					SP	
–8	8						
–10	10			End of boring at 10 feet.			
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: MLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–42** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 102A, unmarked by river** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/18/15 – 06/18/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **10.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		-036		0.2–3.0': SAND, F–C; little gravel; little coal; trace concrete; trace ash; dry. Loose. No odor. (Fill).			
				3.0–5.0': SAND, F–C; little silt/clay; dry. Loose. No odor.			
-2	2					FI	
		N/A					0 ppm
-4	4						
		N/A		5.0–7.5': SAND; little gravel; moist to wet at 7.0 feet.			0 ppm
				7.5–10': COBBLES.		SP	
-6	6						
							0 ppm
-8	8						
						BD	
-10	10			End of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–43**
Project Number: **2001–454 P20**

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Location: **AOC 102A, by road**
Description: **Soil Boring**
Date(s): **06/18/15 – 06/18/15**
Total Depth: **10.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		-037, -038		0.2–2.5': Sand, F–C and coal; trace silt/clay; trace gravel; black (5YR 2.5/1), dry. Loose. No odor. (Fill).			
				2.5–4.0': SAND, F; some silt/clay; brown (7.5YR 4/4), dry. Compact. No odor.		FI	
-2	2			4.0–5.0': COBBLES.			
		N/A					0 ppm
						SM	
-4	4						0 ppm
						BD	
		-039		5.0–8.0': SAND, F; some silt/clay; brown, wet at 5.5 feet. Compact/soft. No odor. Slight petroelum odor at 5.0 feet.			0 ppm
-6	6			8.0–10': SAND, M–C; trace gravel; brown, wet. Compact.			
		N/A				SM	
-8	8						0 ppm
						SP	
-10	10			End of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–44**
Project Number: **2001–454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 101, NE in driveway**
Description: **Soil Boring**
Date(s): **06/18/15 – 06/18/15**
Total Depth: **10.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Back Fill:
type: Native Material fm: 0.00' to: 10.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-040		0–0.3': TOPSOIL		TS	0 ppm
				0.3–4.0': SAND, F–C; trace gravel; trace silt/clay; trace coal; trace brick; yellowish brown (10YR 5/6), dry. Loose. No odor. (Fill).			0 ppm
-2	2			4.0–5.0': SAND, F, brown (7.5YR 4/4), dry. Loose. No odor.		FI	
-4	4	N/A					0 ppm
		-041		5.0–8.0': Same as above, trace silt/clay; wet from 6.0 to 7.0 feet and moist from 7.0 to 8.0 feet. Loose to compact at 7.0 feet. No odor.		SW	0 ppm
-6	6			8.0–10': SAND, F–C; little gravel; wet. Loose. No odor.			
		N/A				SP	
-8	8						0 ppm
-10	10			End of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: JSV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–45** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 101C** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.50in**

Date(s): **06/18/15 – 06/18/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **17.00'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 17.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': TOPSOIL		TS	0 ppm
		-042		0.5–5.0': SAND, F–C; little gravel; trace coal; trace brick; brown (7.5YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
-2	2						
-4	4						
		N/A		Same as above, except some brick. (Fill).		FI	0 ppm
-6	6						
-8	8						
-10	10	N/A		10–12': BRICK.			0 ppm
				12–13': COBBLES; trace brick; trace concrete. (Fill).		B8	
				13–15': SAND, F–C; trace gravel; brown. Thick, viscious free product. Strong odor.			
-12	12						0 ppm
		-043					11.0 ppm
-14	14					FI	
		-045		Same as above, wet. No petroleum after 16.5 feet.			3.9 ppm
-16	16						
		-046					1.1 ppm
				BEDROCK. Refusal and end of boring at 17 feet.		RK	
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–46** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 12, outside along trench** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/22/15 – 06/22/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **10.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 10.00'	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-048		GRAVEL; some F–C sand; trace brick at surface; brown (7.5YR 4/4), dry to wet at 4.0 feet. Loose. No odor. (Fill).			0 ppm
-2	2						
-4	4	N/A				FI	
		-049		5.0–7.5': Same as above. (Fill).			0 ppm
-6	6			7.5–10': BEDROCK, weathered, moist.			
		N/A					0 ppm
-8	8					RK	
-10	10			End of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: JSW

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–47**
Project Number: **2001–454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 1, NE of tanks**
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **7.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 7.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': CONCRETE.		CR	0 ppm
				0.25–5.0': GRAVEL; some F–C sand; dark reddish gray (5YR 4/2), dry. Loose. No odor.			
–2	2						
						GP	
–4	4						
		-050		5.0–6.0': Same as above, cobble from 5.75 to 6.0 feet; very dark gray from 5.25 to 5.35 feet, moist. No odor.			0 ppm
				6.0–6.75': SAND, F–M, dark reddish brown (5YR 3/3), wet. Loose. No odor.			
–6	6	-051		6.75–7.0': BEDROCK, weathered.			0 ppm
						SW	
				BEDROCK. End of boring at 7.0 feet.		RK	0 ppm
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–48** Project Number: **2001–454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 1, N of tanks** | Datum: | Logged By: **M. Vitale** | Driller: **D. Levesque**

Description: **Soil Boring** | Ground Elevation: **0.00'** | Contractor: **Fuss & O'Neill** | Borehole Dia.: **2.50in**

Date(s): **06/22/15 – 06/22/15** | Coordinate X: **0.00** | Drilling Method: **Geoprobe**

Total Depth: **10.75'** | Coordinate Y: **0.00** | Back Fill:

Remarks: Field Instrument: OVM T–1

type: Native Material	fm: 0.00'	to: 10.75'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		SAND, F–M; trace gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
–2	2					FI	
–4	4						
		-052		5.0–5.5': Same as above. (Fill).			0 ppm
				5.5–7.0': COAL, moist. Loose. No odor.			0 ppm
–6	6			7.0–10': SAND, M–C; little gravel; trace coal; trace wood at 10 feet; dark reddish brown (5YR 3/2), wet. Compact. No odor. (Fill).		CO	
		N/A					0 ppm
–8	8	-053				FI	
–10	10	N/A		BEDROCK, weathered.			0 ppm
				BEDROCK. Refusal and end of boring at 10.75 feet.		RK	
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–49** Project Number: **2001–454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 1** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/22/15 – 06/22/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **15.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 15.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
				0.2–5.0': SAND, F–C; trace coal; trace brick; trace gravel; trace cobble; trace concrete; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			0 ppm
-2	2						
-4	4					FI	
		N/A		5.0–7.0': Same as above. (Fill).			0 ppm
				7.0–7.5': SAND, F–C; trace coal; dark brown (7.5YR 2.5/2). (Fill).			
-6	6	-054		7.5–10': SAND, F–C; trace gravel; trace cobbles; reddish brown (5YR 4/4), moist to wet at 8.0 feet.			
							0 ppm
							0 ppm
-8	8	N/A					
-10	10	N/A		10–11': Same as above, wet.			0 ppm
				11–13': SAND, F–C; some silt/clay; trace wood; very dark gray (7.5YR 3/1) to 12.5 feet, then black with oil staining, wet. Compact. Petroleum odor.		SP	
		-055, -056		13–15': BEDROCK, weathered.			0 ppm
-12	12						
							0 ppm
		N/A					0 ppm
-14	14					RK	
				End of boring at 15 feet.			
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: MLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–50**
Project Number: **2001–454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC, W of tanks**
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **12.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 12.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': SAND, F–C; trace gravel; trace roots; brown, dry. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–4.5': SAND, F–C; some gravel; trace coal; dark reddish brown (5YR 4/4), moist. Loose. No odor. (Fill).			0 ppm
				4.5–5.0': SAND, F, reddish brown (5YR 3/3), dry. Loose. No odor. (Fill).			
–2	2						
						FI	
–4	4						
							0 ppm
		N/A		5.0–6.0': Same as above. (Fill).			0 ppm
				6.0–6.5': SAND, F–C; trace gravel; trace coal; trace wood; very dark brown (7.5YR 2.5/3), moist. Loose. No odor. (Fill).			
–6	6	-058		6.5–7.0': COAL.			
				7.0–10': SAND, F–M; some silt/clay; trace gravel; trace wood; trace roots from 9.5 to 10 feet; trace coal; reddish brown (5YR 4/4), moist to wet at 8.0 feet. Loose. No odor. (Fill).			0 ppm
							0 ppm
						CO	
							0 ppm
–8	8	N/A					
						FI	
–10	10	-059		10–11': Same as above. (Fill).			0 ppm
				11–12': BEDROCK, weathered.			
							0 ppm
						RK	
–12	12			BEDROCK. Refusal and end of boring at 12 feet.			
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–51**
Project Number: **2001–454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 7, E of MW–03**
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **11.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 11.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–1.5': SAND, F, black (2.5Y 2.5/1), dry. Compact. No odor. (Fill). 1.5–3.0': SAND, F–C; trace gravel; trace concrete; dark reddish brown (5YR 2.5/2), moist. Loose. No odor. (Fill). 3.0–5.0': SAND, F; reddish brown (5YR 4/4), dry. Loose. No odor.			0 ppm
						Fl	0 ppm
–2	2						
							0 ppm
–4	4						
		–060		Same as above. (Fill).			0 ppm
–6	6						
						SW	
–8	8						
–10	10	–061		10–10.8': SAND, F–C; little gravel; dark reddish brown, wet. Loose. No odor. 10.8–11': BEDROCK, weathered.			0 ppm
						SP	
				BEDROCK. Refusal and end of boring at 11 feet.		RK	0 ppm
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–52**
Project Number: **2001–454 P20**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 7, N of MW–03**
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **12.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 12.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–2.0': SAND, F; trace coal; black (2.5Y 2.5/1). (Fill). 2.0–4.5': SAND, F–C; trace gravel; trace coal; trace concrete; very dark brown (7.5YR 2.5/2), dry. Loose. Faint petroleum odor at 2.5 feet. Oil soaked object at 2.5 feet. (Fill). 4.5–5.0': SAND, F–M, reddish brown, dry. Loose. No odor.			0 ppm
−2	2					FI	0 ppm
−4	4						0 ppm
		-062		Same as above.			0 ppm
−6	6						
−8	8					SP	
−10	10	N/A		Same as above, reddish brown to 11.5 feet, then dark brown (7.5YR 3/3). Petroleum odor from 11.5 to 12 feet.			0 ppm
							0 ppm
−12	12			BEDROCK. Refusal and end of boring at 12 feet.		RK	
−14	14						
−16	16						
−18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: BLC ✓

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-53**
Project Number: **2001-454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 7/8, W of MW-03**
Description: **Soil Boring**
Date(s): **06/22/15 - 06/22/15**
Total Depth: **4.00'**
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 4.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0-3.5': SAND, F; some silt/clay from 2.5 to 3.0 feet; black (2.5Y 2.5/1), moist. Loose. No odor. 3.5-4.0': CONCRETE.			0 ppm
-2	2					FI	
-4	4			CONCRETE. Refusal and end of boring at 4.0 feet.		CR	
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: MLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–54**
Project Number: **2001–454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 7/8, W of MW–03**
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **10.50'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 10.50'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Driller: **D. Levesque**
Borehole Dia.: **2.50in**

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–3.0': SAND, F, black, moist. Loose. No odor. (Fill).			0 ppm
				3.0–4.0': SAND, M–C; trace gravel; reddish brown (5YR 4/4), moist. Loose. (Fill).			
				4.0–4.5': SAND, M–C; little silt/clay; trace gravel; very dark brown (7.5YR 2.5/3), moist. Loose. No odor. (Fill).			
				4.5–5.0': CONCRETE.			
–2	2					FI	
							0 ppm
–4	4						0 ppm
							0 ppm
		N/A		5.0–5.5': CONCRETE.		CR	0 ppm
		–063		5.5–10': SAND, F–C; little gravel; trace silt/clay; black (5YR 3/3), wet. Petroleum odor under concrete. Sheen.			0 ppm
–6	6						
–8	8					SP	
–10	10	–064		Same as above.			28.8 ppm
				BEDROCK. Refusal and end of boring at 10.5 feet.		RK	
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: RLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–55**
Project Number: **2001–454 P20**

FUSS&O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location:
Description: **Soil Boring**
Date(s): **06/22/15 – 06/22/15**
Total Depth: **16.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Driller: **D. Levesque**
Borehole Dia.: **2.50in**
Drilling Method: **Geoprobe**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 16.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
				0.2–5.0': SAND, F–C; little gravel; reddish brown (5YR 4/4), dry. Loose. No odor. (Fill).			
–2	2						
–4	4						
		N/A		Same as above. (Fill).			0 ppm
–6	6						
–8	8					FI	
–10	10	N/A		10–12': Same as above, wet at 11 feet. (Fill).			0 ppm
				12–15': SAND, F–C; little gravel; trace wood; trace brick; trace concrete; black. Loose. Petroleum odor. (Fill).			
–12	12						12.7 ppm
–14	14						
		N/A		Same as above, trace weathered rock at 16 feet; wet. Loose. Strong petroleum odor. Spots of free product. Sheen			87.9 ppm
–16	16			BEDROCK. Refusal and end of boring at 16 feet.		RK	
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By:

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–56** Project Number: **2001–454 P30**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 106, PCB by transformer** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/23/15 – 06/23/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **15.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 15.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A –067 N/A		0–0.25': ASPHALT. 0.25–5.0': SAND, F–C; trace silt/clay; reddish brown (5YR 4/4), dry. Loose, No odor.		AS	0 ppm
–2	2						
–4	4						
		N/A		Same as above.			0 ppm
–6	6						
–8	8					SW	
–10	10	N/A		Same as above.			0 ppm
–12	12						
–14	14						
				End of boring at 15 feet.			
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–57** Project Number: **2001–454 P30**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 106, corner of Court St/Brooklyn St** Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/23/15 – 06/23/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **14.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 14.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A -068		0–0.2': ASPHALT. 0.2–5.0': SAND, F–C; trace gravel; reddish brown (5YR 4/4), dry. Loose. No odor.		AS	0 ppm
−2	2						
−4	4						
		N/A		5.0–6.0': Same as above.			0 ppm
				6.0–10': SAND, F; trace silt/clay; reddish brown (5YR 4/4), moist. Compact. No odor.			
−6	6						0 ppm
						SP	
−8	8						
−10	10	N/A		10–12.5': Same as above, wet.			0 ppm
				12.5–13': COBBLE.			
				13–14': SAND, F; trace silt/clay; reddish brown (5YR 4/4), wet. Compact. No odor.			
−12	12						
							0 ppm
						BD	0 ppm
						SP	
−14	14			BEDROCK. Refusal and end of boring at 14 feet.		RK	
−16	16						
−18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: BLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–58** Project Number: **2001–454 P30**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 7, 20' from SB–55** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **104.00in**

Date(s): **06/23/15 – 06/23/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **19.75'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 19.75'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': ASPHALT. 0.25–5.0': SAND, F–C; trace gravel; trace coal; reddish brown (5YR 4/4) to dark reddish brown (5YR 2.5/2), dry. Loose. No odor. (Fill).		AS	0 ppm
–2	2						
–4	4						
		N/A		Same as above, moist at 9.0 feet. (Fill).			0 ppm
–6	6					FI	
–8	8						
–10	10	N/A		10–11': Same as above. (Fill). 11–13': COAL. 13–14.5': SAND, F–C; trace coal; dark brown. 14.5–15': SAND, F, black (5YR 2.5/1), wet. Compact/soft. Strong petroleum odor.			0 ppm
		-069					
–12	12					CO	
							0 ppm
–14	14					FI	
		N/A					0 ppm
		N/A		15–17': Same as above, some decaying wood fibers. 17–18': SAND, F–M, black, wet. Strong odor. Free product visible. 18–19.75': BEDROCK, weathered.		SW	0 ppm
–16	16	-070				SP	
							0 ppm
–18	18	N/A				SW	0 ppm

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLY

Project Name: Anocoil
Project Location: Vernon, Connecticut

Site Id: SB-58
Project Number: 2001-454 P30

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
-20	20			BEDROCK. Refusal and end of boring at 19.75 feet.		RK	
-22	22						
-24	24						
-26	26						
-28	28						
-30	30						
-32	32						
-34	34						
-36	36						
-38	38						
-40	40						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–59** Project Number: **2001–454 P30**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 12, W storage area** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/23/15 – 06/23/15** Coordinate X: **0.00** Drilling Method: **Geoprobe**

Total Depth: **9.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 9.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': CONCRETE. 0.5–1.75': SAND, F–C; trace gravel; reddish brown (5YR 5/3), dry. Loose. No odor (Fill). 1.75–2.0': CONCRETE.		CR FI	0 ppm
-2	2	N/A -071		2.0–2.5': SAND, F–C, black (5YR 2.5/1), moist. Loose.. No odor. 2.5–4.0': SAND, F–C; trace gravel; trace silt/clay; black (5YR 2.5/1), wet. Loose. No odor. Slight sheen.		CR	0 ppm 0 ppm 0 ppm
-4	4	N/A		4.0–5.0': Same as above, trace wood fragments; wet. Loose, No odor. 5.0–6.0': WOOD, fragments; trace silt/clay; trace F sand; wet. Loose. No odor.		SP	0 ppm 0 ppm
-6	6	N/A -072		SAND, F–C; trace gravel; trace silt/clay; wet. Loose. No odor. Weathered bedrock in tip.		RK	0 ppm
-8	8			BEDROCK, weathered. Refusal and end of boring at 9.0 feet.			
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB-60**
Project Number: **2001-454 P30**

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860.646.2469

Location: **AOC 12, boiler room**
Description: **Soil Boring**
Date(s): **06/23/15 - 06/23/15**
Total Depth: **1.00'**
Remarks: Field Instrument: OVM T-1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**
Drilling Method: **Hand Geoprobe**
Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 1.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A -073		0-0.5': CONCRETE. 0.5-1.0': SAND, F-C; trace gravel; dark brown (7.5YR 3/3), wet. Loose. No odor. Refusal and end of boring at 1.0 foot.		CR SP	0 ppm
-2	2						
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: BLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–61** Project Number: **2001–454 P30**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **AOC 12, back storage room** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/23/15 – 06/23/15** Coordinate X: **0.00** Drilling Method: **Hand Geoprobe**

Total Depth: **8.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 8.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.3': CONCRETE. 0.3–4.0': SAND, F–C; trace silt/clay; trace wood fibers; very dark brown (7.5YR 2.5/2), wet. Soft. No odor. Possibly oil stained.		CR	0 ppm
−2	2						
−4	4	-074		4.0–5.5': Same as above. 5.5–6.0': SAND, F, black (5YR 2.5/1), wet. No odor. Oil stained.		SP	0 ppm
		N/A					0 ppm
−6	6	-075		Same as above.			0 ppm
−8	8			End of boring at 8.0 feet.			
−10	10						
−12	12						
−14	14						
−16	16						
−18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: BLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–62**
Project Number: **2001–454 P30**

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860.646.2469

Location: **Cellar**
Description: **Soil Boring**
Date(s): **06/24/15 – 06/24/15**
Total Depth: **6.00'**
Remarks: Field Instrument: OVM T–1

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **1.75in**
Drilling Method: **Hand Geoprobe**
Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 6.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.25': CONCRETE.		CR	0 ppm
				0.25–2.0': SAND, F–C; trace gravel; very dark brown (7.5YR 3/3), dry. Loose. No odor.			
–2	2	–076		Same as above.			0 ppm
						SP	
–4	4	–077		Same as above, wet at 5.0 feet.			0 ppm
–6	6			End of boring at 6.0 feet.			
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLW

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SB–63** Project Number: **2001–454 P30**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Cellar** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Soil Boring** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.50in**

Date(s): **06/24/15 – 06/24/15** Coordinate X: **0.00** Drilling Method: **Hand Geoprobe**

Total Depth: **4.20'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T–1

type: Concrete	fm: 0.00'	to: 0.50'
type: Native Material	fm: 0.50'	to: 4.20'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Vapor
0		N/A		0–0.25': CONCRETE. 0.25–2.0': SAND, F–C; trace weathered bedrock at 2.0 feet; very dark brown (7.5YR 3/3), dry. Loose. No odor. (Fill).		CR	
–2	2	–078		Same as above, trace at 4.0 feet. (Fill).		FI	
–4	4	N/A		No recovery. BEDROCK. Refusal and end of boring at 4.2 feet.		NR RK	
–6	6						
–8	8						
–10	10						
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50% Checked By: RLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–64**
Project Number: **2001–454 P60**

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860.646.2469

Location: **Under tree at shipping/receiving** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **06/08/16 – 06/08/16** Coordinate X: **0.00**
Total Depth: **19.50'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 19.50'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-05		0–0.5': SAND, F–C; trace gravel; trace silt/clay; trace roots; dark brown, dry. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–4.0': SAND, F–C; trace gravel; trace silt/clay; reddish brown, dry. Loose. No odor. (Fill).			0 ppm
-2	2	N/A					
-4	4						
		N/A		5.0–8.0': SAND, F–C; some gravel; dark brown, dry. Loose. No odor. (Fill).			0 ppm
-6	6						
-8	8					FI	
-10	10	-06		10–11.5': Same as above. (Fill).			0 ppm
				11.5–12.5': SAND, F–C; some gravel; trace coal; trace trash; very dark brown, moist. Loose. No odor. (Fill).			
-12	12						0 ppm
		N/A					
-14	14						
		N/A		15–16.5': Same as above. (Fill).			0 ppm
				16.5–18': SAND, M–C; trace gravel; reddish brown, dry. Loose. No odor.			
-16	16						0 ppm
-18	18					SW	

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: SB–64
Project Number: **2001–454 P60**

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Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
				BEDROCK. Refusal and end of boring at 19.5 feet.		RK	
–20	20						
–22	22						
–24	24						
–26	26						
–28	28						
–30	30						
–32	32						
–34	34						
–36	36						
–38	38						
–40	40						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–65**
Project Number: **2001–454 P60**

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Location: **SE side of building, AOC 105**
Description: **Soil Boring**
Date(s): **06/08/16 – 06/08/16**
Total Depth: **10.00'**
Remarks: Field Instrument: OVM

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.2': ASPHALT.		AS	0 ppm
		-07		0.2–2.5': SAND, F; trace gravel; trace coal; reddish brown, moist. Loose. No odor. (Fill).			
-2	2	N/A					
						FI	
-4	4						
		-08		5.0–6.5': Same as above. (Fill).			0 ppm
				6.5–8.0': SAND, F, reddish brown, moist. Loose. No odor.			
-6	6			8.0–8.5': BEDROCK, weathered. (Sandstone).			
		N/A					0 ppm
						SP	
-8	8						0 ppm
						RK	
-10	10			BEDROCK. Refusal and end of boring at 10 feet.			
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–66**
Project Number: **2001–454 P60**

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860.646.2469

Location: **Corner E Main and Court, AOC 105** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **06/08/16 – 06/08/16** Coordinate X: **0.00**
Total Depth: **13.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**
Drilling Method: **Geoprobe**
Back Fill:
type: Native Material fm: 0.00' to: 13.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-09		0–0.5': SAND, F–C; trace silt/clay; trace roots; dark brown, dry. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–2.5': SAND, F–C; trace gravel; trace roots; reddish brown, dry. Loose. No odor. (Fill).			
-2	2	N/A					
-4	4						
		N/A		5.0–7.0': Same as above, moist at 6.0 feet. (Fill).			0 ppm
				7.0–8.0': SAND, F–C; trace gravel; trace brick, very dark brown, moist. Loose. No odor. (Fill).		FI	
-6	6						
		-10					0 ppm
-8	8	N/A					
-10	10	N/A		BEDROCK, weathered, trace silt/clay; dry. Loose. No odor.			0 ppm
						RK	
-12	12						
				BEDROCK. Refusal and end of boring at 13 feet.			
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–67**
Project Number: **2001–454 P60**

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MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 101, W boring at edge of parking lot**
Description: **Soil Boring**
Date(s): **06/08/16 – 06/08/16**
Total Depth: **15.00'**
Remarks: Field Instrument: OVM

Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 15.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.1': ASPHALT.		AS	0 ppm
				0.1–2.5': SAND, F–C; trace gravel; light brown, dry. Loose. No odor. (Fill).			
–2	2						
						FI	
–4	4						
		N/A		5.0–6.0': Same as above. (Fill).			0 ppm
				6.0–6.5': SAND, F–C; little gravel; trace trash; dark brown, dry. Loose. No odor. (Fill).			
–6	6			6.5–6.75': SAND, F–C; some silt/clay; trace gravel; moist. Compact. No odor.			0 ppm
		–11					112 ppm
		N/A					
–8	8					SM	
–10	10	–12		10–11': Same as above.			0 ppm
				11–12.5': BEDROCK, weathered; little F sand; trace silt/clay; dry. Loose. No odor.			
		N/A					0 ppm
–12	12						
						RK	
–14	14						
				BEDROCK. Refusal and end of boring at 15 feet.			
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–68**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Top of driveway, AOC 101**
Description: **Soil Boring**
Date(s): **06/09/16 – 06/09/16**
Total Depth: **14.00'**
Remarks: Field Instrument: OVM
Refusal at 12 feet. Offset.

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:
type: Native Material fm: 0.00' to: 14.00'
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A		0–0.5': SAND, F–C; trace gravel; trace silt/clay; very dark brown, moist. Loose. No odor. (Topsoil).		TS	0 ppm
				0.5–2.0': SAND, F–C; little gravel; dark brown, moist. Loose. No odor. (Fill).			0 ppm
				2.0–2.5': Brick and concrete and coal; dry. Loose. No odor. (Fill).			
–2	2						0 ppm
						FI	
–4	4						
		N/A		5.0–5.5': Same as above. (Fill).			0 ppm
–6	6						
–8	8					NR	
–10	10	N/A		10–12': BEDROCK, weathered, dry. Loose. No odor.			
–12	12					RK	
–14	14			BEDROCK, suspected. Refusal and end of boring at 14 feet.			
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–69**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 20, off N corner of building** Datum:
Description: **Soil Boring** Ground Elevation: **0.00'**
Date(s): **06/09/16 – 06/09/16** Coordinate X: **0.00**
Total Depth: **10.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: OVM

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.25in**
Drilling Method: **Geoprobe**
Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A					
		–17		0–0.2': ASPHALT.		AS	0 ppm
				0.2–2.5': SAND, F–C; trace gravel; trace brick; trace coal; trace ash; trace metal; reddish brown, dry. Loose. No odor. (Fill).			
		N/A					
		–18					
–2	2	N/A				Fl	
–4	4						
		–19		SAND, F–C; trace gravel; reddish brown, dry. Loose. No odor.			0 ppm
–6	6	N/A					
						SW	
–8	8						
–10	10			End of boring at 10 feet.			
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–70**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location:
Description: **Soil Boring**
Date(s): **06/09/16 – 06/09/16**
Total Depth: **10.00'**
Remarks: Field Instrument: OVM
No refusal.

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**
Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.25'
type: Native Material	fm: 0.25'	to: 10.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		N/A –20, –21		0–0.2': ASPHALT. 0.2–1.0': SAND, F–C; trace gravel; trace wood; trace ash; black, dry. Loose. No odor. (Fill).		AS	0 ppm
				1.0–1.5': Brick and concrete; trace F–C sand; reddish brown, dry. Loose. No odor. (Fill).			0 ppm
–2	2	N/A		2.0–4.0': SAND, F–C; trace gravel; reddish brown, dry. Loose. No odor. (Fill).			0 ppm
		–22					
–4	4	N/A					
		–23		5.0–6.5': SAND, F–C; some silt/clay; trace gravel; reddish brown, moist. Loose. No odor. (Fill).		FI	0 ppm
–6	6						
		N/A					
		N/A		7.0–9.0': Same as above, trace brick; trace coal. (Fill).			0 ppm
–8	8						
–10	10			End of boring at 10 feet.			
–12	12						
–14	14						
–16	16						
–18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–71**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 20, inside fence adjacent w[illegible]** Offset:
Description: **Soil Boring**
Date(s): **06/09/16 – 06/09/16**
Total Depth: **3.00'**
Remarks: Field Instrument: OVM

Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale**
Contractor: **Fuss & O'Neill**
Drilling Method: **Geoprobe**

Driller: **D. Levesque**
Borehole Dia.: **2.25in**

Back Fill:

type: Native Material	fm: 0.00'	to: 3.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-24		0–0.5': SAND, F–C; trace brick; trace concrete; trace coal; trace roots; black, moist. Loose. No odor. (Fill).		Fl	0 ppm
		N/A		0.5–1.5': BEDROCK, weathered, light gray, dry. Loose. No odor.			0 ppm
-2	2					RK	
				BEDROCK. Refusal and end of boring at 3.0 feet.			
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–72**
Project Number: **2001–454 P60**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **AOC 20, on bank in woods**
Description: **Soil Boring**
Date(s): **06/10/16 – 06/10/16**
Total Depth: **2.00'**
Remarks: Field Instrument: OVM

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **M. Vitale** Driller: **M. Vitale**
Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**
Drilling Method: **Hand Geoprobe**
Back Fill:
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:
type: fm: to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0		-29		0–1.0': SAND, F–C; trace silt/clay; trace gravel; trace roots; dry. Loose. No odor.			0 ppm
		N/A				SW	
-2	2			BEDROCK, suspected. Refusal and end of boring at 2.0 feet.		RK	
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**

Site Id: **SB–76**
Project Number: **2001–454 P80**

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Location: **Chemical unloading area–sump**
Description: **Soil Boring**
Date(s): **02/06/18 – 02/06/18**
Total Depth: **7.00'**
Remarks: Field Instrument: PID

Datum:
Ground Elevation: **0.00'**
Coordinate X: **0.00**
Coordinate Y: **0.00**

Logged By: **D. Pietkevich**
Contractor: **Haz–Probe**
Drilling Method: **Geoprobe**
Driller: **Frank & Paul**
Borehole Dia.: **2.50in**

Back Fill:

type: Concrete	fm: 0.00'	to: 0.50'
type: Bentonite Grout	fm: 0.50'	to: 7.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	PID
0		N/A		0–0.75': CONCRETE. 0.75–2.5': SAND, M–C; little gravel; reddish brown, dry. Loose. No odor. Bottom of sump at 1.25 feet.		CR	0 ppm
		-03					
-2	2						
		N/A					
-4	4	-04, -05		4.0–5.5': Same as above. 5.5–6.5': SAND, F–M; trace pulverized rock; reddish brown, dry. Loose. No odor.		SW	0 ppm
							0 ppm
-6	6	N/A					
				Refusal and end of boring at 7.0 feet.			
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SS-01** Project Number: **2001-454 P20**	**FUSS&O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Acetive transformer pad, behind gate** Datum:
Description: **Surface Soil Sample** Ground Elevation: **0.00'**
Date(s): **04/24/15 - 04/24/15** Coordinate X: **0.00**
Total Depth: **1.00'** Coordinate Y: **0.00**
Remarks: Field Instrument: None

Logged By: **M. Vitale** Driller: **D. Levesque**
Contractor: **Fuss & O'Neill** Borehole Dia.: **6.00in**
Drilling Method: **Shovel**
Back Fill:

type: Native Material	fm: 0.00'	to: 1.00'
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:
type:	fm:	to:

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	Vapor
0		-11		0-0.25': GRAVEL, C.		GW	
		N/A		0.25-1.0': SAND, F-C; little gravel; trace silt/clay; dark brown (10YR 3/3), dry. Loose. No odor.		SP	
				End of boring at 1.0 foot.			
-2	2						
-4	4						
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil** Project Location: **Vernon, Connecticut**	Site Id: **SS-02** Project Number: **2001-454 P20**	**FUSS & O'NEILL** 146 HARTFORD ROAD MANCHESTER, CONNECTICUT 06040 860.646.2469

Location: **Transformer pad (inactive)** Datum: Logged By: **M. Vitale** Driller: **D. Levesque**

Description: **Surface Soil Sample** Ground Elevation: **0.00'** Contractor: **Fuss & O'Neill** Borehole Dia.: **2.00in**

Date(s): **04/29/15 - 04/29/15** Coordinate X: **0.00** Drilling Method: **Shovel/Hand Geoprobe**

Total Depth: **4.00'** Coordinate Y: **0.00** Back Fill:

Remarks: Field Instrument: OVM T-1

type: Native Material	fm: 0.00'	to: 4.00'	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	
type:	fm:	to:	

Elevation	Depth	Sample No.	Recovery	Material Description	Graphic Log	USCS Code	OVM
0				GRAVEL.		GW	0 ppm
-2	2	-58		SAND, F-C; some gravel; reddish brown (5YR 4/4), dry. Loose. No odor.		SP	0 ppm
-4	4			End of boring at 4.0 feet.			
-6	6						
-8	8						
-10	10						
-12	12						
-14	14						
-16	16						
-18	18						

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**
Project Number: **2001-454 P60**
Location: **Upper entrance by MW-15**
Contractor: **R&R Landscaping**
Date Completed: **09/15/16**

Test Pit #: TP-108

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Depth	Sample No.	Material Description	USCS Code
	N/A	0-0.33': TOPSOIL; little organics; brown. Loose.	TS
	-11 to -14	0.33-1.5': SAND, F-C; trace to little gravel/cobble; light reddish brown, dry. Loose. No odor. (Fill).	
	-15 to -18	1.5-4.0': SAND, F-C; little brick; little glass; trace coal; trace metal; dark brown. Moderate compact. No odor. (Fill).	
2			FI
	N/A		
4	-19	End of testpit at 4.0 feet.	
6			
8			
10			
12			

Excavation Method: Backhoe
Approx. Surface Elev.: 0.00'
Total Depth: 4.00'
Field Instrument: None
Dimensions of pit: 5.0 x 5.0 x 4.0 feet

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Logged By: M. Mostowy Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**
Project Number: **2001-454 P60**
Location: **Adj to SW wall of N half of building**
Contractor: **R&R Landscaping**
Date Completed: **09/15/16**

Test Pit #:
TP-119

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Depth	Sample No.	Material Description	USCS Code
	N/A	0-0.33': TOPSOIL; some organics; brown. Loose.	TS
		0.33-1.0': SAND, F-C; trace cobble; light reddish brown. Slight compact. No odor. (Fill).	
	-01 to -04	1.0-3.0': SAND, F-C; little cobble; trace silt; brown. Compact. No odor. (Fill).	
2			FI
	-05 to -09	3.0-4.0': SAND, F-C; trace brick; trace coal; trace glass; trace metal; dark brown. Compact. No odor. (Fill).	
4	-10	End of testpit at 4.0 feet.	
6			
8			
10			
12			

Excavation Method:Backhoe
Approx. Surface Elev.: 0.00'
Total Depth: 4.00'
Field Instrument: None
Dimensions of pit: 5.0 x 5.0 x 4.0 feet

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Logged By: M. Mostowy Checked By: KLV

Project Name: **Anocoil**
Project Location: **Vernon, Connecticut**
Project Number: **2001-454 P60**
Location: **Adjacent to W tip of S portion**
Contractor: **R&R Landscaping**
Date Completed: **09/15/16**

Test Pit #:
TP-136

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469

Depth	Sample No.	Material Description	USCS Code
	N/A	0-0.4': TOPSOIL; some organics; brown. Loose.	TS
	-20	0.4-2.0': SAND, F-C; trace glass; trace plastic debris; brown. Moderate conpact. No odor. (Fill).	FI
2		2.0-5.0': SAND, F-C; trace to little cobble; light reddish brown, dry. Loose.	
4	N/A		SW
		5.0-7.0': SAND, F-M, reddish brown. Moderate compact. No odor.	
6			SP
	-21	End of testpit at 7.0 feet.	
8			
10			
12			

Excavation Method:Backhoe
Approx. Surface Elev.: 0.00'
Total Depth: 7.00'
Field Instrument: None
Dimensions of pit: 3.0 x 5.0 x 7.0 feet

Proportions used: Trace 0 to 10%/Some 20 to 35%/Little 10 to 20%/And 35 to 50%

Logged By: M. Mostowy Checked By: KLV

PHOENIX
Environmental Laboratories, Inc.

Monday, June 01, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ07904 - BJ07906, BJ07908 - BJ07909, BJ07911 - BJ07912, BJ07914 - BJ07917

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 8:55 am, Jun 03, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 13, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ07904 - BJ07906, BJ07908 - BJ07909, BJ07911 - BJ07912, BJ07914 - BJ07917

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

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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

REVIEWED **DMS**
By pbibeau at 9:48 am, May 18, 2015

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 05, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ07904 - BJ07906, BJ07908 - BJ07909, BJ07911 - BJ07912, BJ07914 - BJ07917

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

REVIEWED **DMS**
By pbibeau at 3:37 pm, May 05, 2015

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

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	8:00
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07904

Project ID: ANOCOIL
Client ID: 1251150424-01 SB-01 (0.6-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		04/24/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/24/15	CC/V	SW3545A
Field Extraction	Completed				04/24/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	23000	1500	mg/Kg	10	04/30/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	04/30/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,1,1-Trichloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/04/15	JLI	SW8260
1,1,2-Trichloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,1-Dichloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,1-Dichloroethene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,1-Dichloropropene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2,3-Trichloropropane	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2-Dibromoethane	ND	7	ug/Kg	1	05/04/15	JLI	SW8260
1,2-Dichlorobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,2-Dichloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,2-Dichloropropane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150424-01

SB-01 (0.6-1.5')

Phoenix I.D.: BJ07904

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,3-Dichlorobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
1,3-Dichloropropane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
1,4-Dichlorobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
2,2-Dichloropropane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
2-Chlorotoluene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
2-Hexanone	ND	36	ug/Kg	1	05/04/15	JLI	SW8260
2-Isopropyltoluene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
4-Chlorotoluene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	1	05/04/15	JLI	SW8260
Acetone	ND	71	ug/Kg	1	05/04/15	JLI	SW8260
Acrylonitrile	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Benzene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Bromobenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
Bromochloromethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Bromodichloromethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Bromoform	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Bromomethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Carbon Disulfide	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Carbon tetrachloride	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Chlorobenzene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Chloroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Chloroform	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Chloromethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Dibromochloromethane	ND	4.3	ug/Kg	1	05/04/15	JLI	SW8260
Dibromomethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Dichlorodifluoromethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Ethylbenzene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Hexachlorobutadiene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
Isopropylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
m&p-Xylene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Methyl Ethyl Ketone	ND	43	ug/Kg	1	05/04/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/04/15	JLI	SW8260
Methylene chloride	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Naphthalene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
n-Butylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
n-Propylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
o-Xylene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
p-Isopropyltoluene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
sec-Butylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
Styrene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
tert-Butylbenzene	ND	390	ug/Kg	50	05/04/15	JLI	SW8260
Tetrachloroethene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/04/15	JLI	SW8260
Toluene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Total Xylenes	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	780	ug/Kg	50	05/04/15	JLI	SW8260
Trichloroethene	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Trichlorofluoromethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Trichlorotrifluoroethane	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
Vinyl chloride	ND	7.1	ug/Kg	1	05/04/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/04/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	05/04/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/04/15	JLI	70 - 130 %
% Toluene-d8	85		%	1	05/04/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	18000	7100	ug/Kg	5	04/28/15	DD	SW8270D
Acenaphthene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Acenaphthylene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Anthracene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Benz(a)anthracene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Benzo(a)pyrene	11000	7100	ug/Kg	5	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Benzo(ghi)perylene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Chrysene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Fluoranthene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Fluorene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Naphthalene	ND	7100	ug/Kg	5	04/28/15	DD	SW8270D
Phenanthrene	22000	7100	ug/Kg	5	04/28/15	DD	SW8270D
Pyrene	44000	7100	ug/Kg	5	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	5	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	76		%	5	04/28/15	DD	30 - 130 %
% Terphenyl-d14	77		%	5	04/28/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150424-01

SB-01 (0.6-1.5')

Phoenix I.D.: BJ07904

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

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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

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

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

May 05, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	9:45
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07905

Project ID: ANOCOIL
Client ID: 1251150424-02 SB-02 (1.1-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	74		%		04/24/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/24/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/24/15	CC/V	SW3545A
Field Extraction	Completed				04/24/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1100	130	mg/Kg	2	04/27/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	2	04/27/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	2	04/27/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,1,1-Trichloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	2.1	ug/Kg	1	05/04/15	HM	SW8260
1,1,2-Trichloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloroethene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloropropene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2,3-Trichlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2,3-Trichloropropane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2,4-Trichlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2,4-Trimethylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dibromoethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichloropropane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260

Project ID: ANOCOIL
Client ID: 1251150424-02

SB-02 (1.1-2.5')

Phoenix I.D.: BJ07905

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,3-Dichlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,3-Dichloropropane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
1,4-Dichlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
2,2-Dichloropropane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
2-Chlorotoluene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
2-Hexanone	ND	18	ug/Kg	1	05/04/15	HM	SW8260
2-Isopropyltoluene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
4-Chlorotoluene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
4-Methyl-2-pentanone	ND	18	ug/Kg	1	05/04/15	HM	SW8260
Acetone	ND	21	ug/Kg	1	05/04/15	HM	SW8260
Acrylonitrile	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Benzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Bromobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Bromochloromethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Bromodichloromethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Bromoform	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Bromomethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Carbon Disulfide	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Carbon tetrachloride	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Chlorobenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Chloroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Chloroform	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Chloromethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
cis-1,2-Dichloroethene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
cis-1,3-Dichloropropene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Dibromochloromethane	ND	2.1	ug/Kg	1	05/04/15	HM	SW8260
Dibromomethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Dichlorodifluoromethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Ethylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Hexachlorobutadiene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Isopropylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
m&p-Xylene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Methyl Ethyl Ketone	ND	21	ug/Kg	1	05/04/15	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	7.0	ug/Kg	1	05/04/15	HM	SW8260
Methylene chloride	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Naphthalene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
n-Butylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
n-Propylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
o-Xylene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
p-Isopropyltoluene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
sec-Butylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Styrene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
tert-Butylbenzene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Tetrachloroethene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Tetrahydrofuran (THF)	ND	7.0	ug/Kg	1	05/04/15	HM	SW8260
Toluene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Total Xylenes	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
trans-1,2-Dichloroethene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260

Project ID: ANOCOIL
Client ID: 1251150424-02

SB-02 (1.1-2.5')

Phoenix I.D.: BJ07905

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
trans-1,4-dichloro-2-butene	ND	7.0	ug/Kg	1	05/04/15	HM	SW8260
Trichloroethene	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Trichlorofluoromethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Trichlorotrifluoroethane	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
Vinyl chloride	ND	3.5	ug/Kg	1	05/04/15	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/04/15	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	05/04/15	HM	70 - 130 %
% Dibromofluoromethane	101		%	1	05/04/15	HM	70 - 130 %
% Toluene-d8	99		%	1	05/04/15	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	1200	620	ug/Kg	2	04/28/15	DD	SW8270D
Acenaphthene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Acenaphthylene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Anthracene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Benz(a)anthracene	640	620	ug/Kg	2	04/28/15	DD	SW8270D
Benzo(a)pyrene	650	620	ug/Kg	2	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	630	620	ug/Kg	2	04/28/15	DD	SW8270D
Benzo(ghi)perylene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Chrysene	800	620	ug/Kg	2	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Fluoranthene	950	620	ug/Kg	2	04/28/15	DD	SW8270D
Fluorene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Naphthalene	ND	620	ug/Kg	2	04/28/15	DD	SW8270D
Phenanthrene	780	620	ug/Kg	2	04/28/15	DD	SW8270D
Pyrene	1100	620	ug/Kg	2	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	2	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	2	04/28/15	DD	30 - 130 %
% Terphenyl-d14	59		%	2	04/28/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150424-02

SB-02 (1.1-2.5')

Phoenix I.D.: BJ07905

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

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

Comments:

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

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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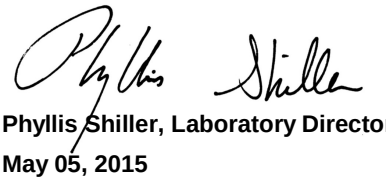

Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

June 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	10:30
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07906

Project ID: ANOCOIL
Client ID: 1251150424-03 SB-03 (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.32	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Arsenic	1.9	0.6	mg/Kg	1	05/24/15	LK	SW6010C
Barium	31.7	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Cadmium	< 0.32	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Chromium	16.4	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Copper	12.7	0.32	mg/kg	1	05/24/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	05/21/15	RS	SW7471B
Nickel	8.47	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Lead	5.44	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	05/24/15	LK	SW6010C
Zinc	21.0	0.32	mg/Kg	1	05/24/15	LK	SW6010C
Percent Solid	94		%		04/24/15	I	SW846-%Solid
pH - Soil	4.17	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045
Mercury Digestion	Completed				05/21/15	I/I	SW7471B
Total Metals Digest	Completed				05/20/15	CB/AG	SW3050B

Project ID: ANOCOIL
Client ID: 1251150424-03

SB-03 (1-3')

Phoenix I.D.: BJ07906

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director
June 01, 2015
Reviewed and Released by: Ethan Lee, 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

June 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	11:30
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07908

Project ID: ANOCOIL
Client ID: 1251150424-05

SB-04 (3-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Aluminum	13900	53	mg/Kg	10	04/28/15	LK	SW6010C
Arsenic	3.4	0.7	mg/Kg	1	04/28/15	LK	SW6010C
Barium	97.0	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Chromium	30.1	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Copper	51.8	0.35	mg/kg	1	04/28/15	LK	SW6010C
Mercury	0.07	0.03	mg/Kg	1	05/21/15	RS	SW7471B
Nickel	49.4	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Lead	270	3.5	mg/Kg	10	04/28/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	04/28/15	LK	SW6010C
SPLP Aluminum	0.34	0.10	mg/L	1	05/12/15	LK	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	05/12/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A
Zinc	48.9	0.35	mg/Kg	1	04/28/15	LK	SW6010C
Percent Solid	87		%		04/24/15	I	SW846-%Solid
pH - Soil	11.08	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045
Mercury Digestion	Completed				05/21/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312
Total Metals Digest	Completed				04/24/15	CB/AG	SW3050B

Project ID: ANOCOIL
Client ID: 1251150424-05

SB-04 (3-5')

Phoenix I.D.: BJ07908

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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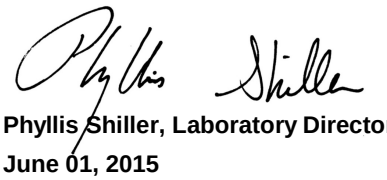

Phyllis Shiller, Laboratory Director
June 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	11:45
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07909

Project ID: ANOCOIL
Client ID: 1251150424-06

SB-05 (0.8-2.8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	2110	5.7	mg/Kg	1	04/28/15	LK	SW6010C
Percent Solid	79		%		04/24/15	I	SW846-%Solid
pH - Soil	8.70	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045
Total Metals Digest	Completed				04/27/15	CB/AG	SW3050B

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

June 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	12:30
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07911

Project ID: ANOCOIL
Client ID: 1251150424-08

SB-06 (0.7-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Aluminum	8770	60	mg/Kg	10	04/28/15	EK	SW6010C
Arsenic	< 0.8	0.8	mg/Kg	1	04/28/15	LK	SW6010C
Barium	230	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Chromium	6.46	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Copper	14.8	0.40	mg/kg	1	04/28/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	05/21/15	RS	SW7471B
Nickel	4.48	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Lead	103	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/28/15	LK	SW6010C
Zinc	27.1	0.40	mg/Kg	1	04/28/15	LK	SW6010C
Percent Solid	76		%		04/24/15	I	SW846-%Solid
pH - Soil	11.28	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045
Mercury Digestion	Completed				05/21/15	I/I	SW7471B
Total Metals Digest	Completed				04/27/15	CB/AG	SW3050B

Project ID: ANOCOIL
Client ID: 1251150424-08

SB-06 (0.7-1')

Phoenix I.D.: BJ07911

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

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

Comments:

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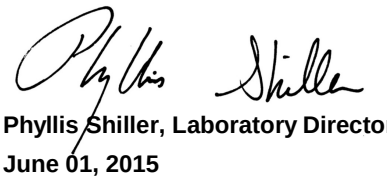

Phyllis Shiller, Laboratory Director
June 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	12:45
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07912

Project ID: ANOCOIL
Client ID: 1251150424-09 SB-07 (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	5330	58	mg/Kg	10	04/28/15	EK	SW6010C
Percent Solid	82		%		04/24/15	I	SW846-%Solid
pH - Soil	9.27	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045
Total Metals Digest	Completed				04/27/15	CB/AG	SW3050B

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

Comments:

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Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	13:45
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07914

Project ID: ANOCOIL
Client ID: 1251150424-11

SS-01 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		04/24/15	I	SW846-%Solid
Extraction of CT ETPH	Completed				04/24/15	CC/V	SW3545A
Extraction for PCB	Completed				04/24/15	/W	SW3540C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	210	62	mg/Kg	1	04/28/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/28/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	90		%	1	04/28/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1221	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1232	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1242	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1248	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1254	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1260	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1262	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
PCB-1268	ND	0.4	mg/kg	10	04/27/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	108		%	10	04/27/15	AW	30 - 150 %
% TCMX	91		%	10	04/27/15	AW	30 - 150 %

Project ID: ANOCOIL
Client ID: 1251150424-11

SS-01 (0-0.5')

Phoenix I.D.: BJ07914

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

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

Comments:

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

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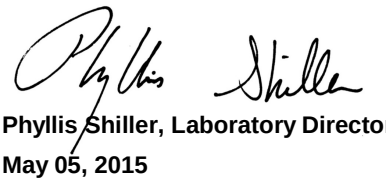

Phyllis Shiller, Laboratory Director

May 05, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	14:00
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07915

Project ID: ANOCOIL
Client ID: 1251150424-12 SB-08 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		04/24/15	I	SW846-%Solid
pH - Soil	7.20	0.10	pH Units	1	04/24/15 19:40	DH/KDB	SW9045

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

Comments:

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May 05, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	14:05
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07916

Project ID: ANOCOIL
Client ID: 1251150424-13 Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/24/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
2-Hexanone	ND	1300	ug/Kg	50	05/04/15	HM	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/04/15	HM	SW8260

Project ID: ANOCOIL
Client ID: 1251150424-13

Trip Blank - high

Phoenix I.D.: BJ07916

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/04/15	HM	SW8260
Acetone	ND	5000	ug/Kg	50	05/04/15	HM	SW8260
Acrylonitrile	ND	500	ug/Kg	50	05/04/15	HM	SW8260
Benzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Bromoform	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Bromomethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Chloroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Chloroform	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Chloromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/04/15	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Methylene chloride	ND	500	ug/Kg	50	05/04/15	HM	SW8260
Naphthalene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
o-Xylene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Styrene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/04/15	HM	SW8260
Toluene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/04/15	HM	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/04/15	HM	SW8260
Trichloroethene	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/04/15	HM	SW8260
Vinyl chloride	ND	250	ug/Kg	50	05/04/15	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/04/15	HM	70 - 130 %
% Bromofluorobenzene	96		%	50	05/04/15	HM	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150424-13

Trip Blank - high

Phoenix I.D.: BJ07916

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	50	05/04/15	HM	70 - 130 %
% Toluene-d8	101		%	50	05/04/15	HM	70 - 130 %

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

Comments:

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

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

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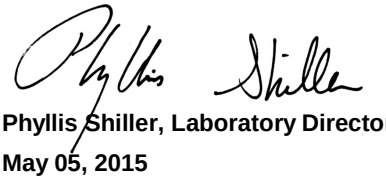

Phyllis Shiller, Laboratory Director

May 05, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/24/15	14:06
Location Code:	F&O-PCB	Received by:	LB	04/24/15	17:29
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ07904
Phoenix ID: BJ07917

Project ID: ANOCOIL
Client ID: 1251150424-14 Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/24/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/04/15	HM	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/04/15	HM	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260

Project ID: ANOCOIL
Client ID: 1251150424-14 Trip Blank - low

Phoenix I.D.: BJ07917

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/04/15	HM	SW8260
Acetone	ND	30	ug/Kg	1	05/04/15	HM	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Benzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/04/15	HM	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/04/15	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/04/15	HM	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Styrene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/04/15	HM	SW8260
Toluene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/04/15	HM	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/04/15	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	05/04/15	HM	70 - 130 %
% Bromofluorobenzene	94		%	1	05/04/15	HM	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150424-14

Trip Blank - low

Phoenix I.D.: BJ07917

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	05/04/15	HM	70 - 130 %
% Toluene-d8	99		%	1	05/04/15	HM	70 - 130 %

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

Comments:

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

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

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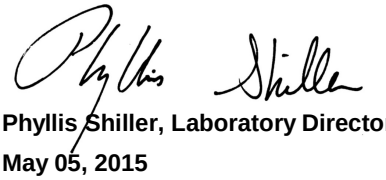

Phyllis Shiller, Laboratory Director

May 05, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
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QA/QC Report

June 01, 2015

QA/QC Data

SDG I.D.: GBJ07904

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 306028 (mg/kg), QC Sample No: BJ07856 (BJ07909, BJ07911, BJ07912)														
ICP Metals - Soil														
Aluminum	BRL	4.5	6500	4840	29.3	89.9	92.6	3.0	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.60	10.6	11.6	9.00	89.2	92.3	3.4	83.6	96.1	13.9	75 - 125	30	
Barium	BRL	0.30	272	144	61.5	90.1	92.2	2.3	66.7	103	42.8	75 - 125	30	m,r
Cadmium	BRL	0.30	28.5	33.6	16.4	86.2	88.5	2.6	84.1	89.8	6.6	75 - 125	30	
Chromium	BRL	0.30	79.2	73.3	7.70	89.8	94.2	4.8	84.7	95.7	12.2	75 - 125	30	
Copper	BRL	0.30	178	198	10.6	96.3	98.6	2.4	101	123	19.6	75 - 125	30	
Lead	BRL	0.30	11600	9090	24.3	87.9	92.6	5.2	NC	NC	NC	75 - 125	30	
Nickel	BRL	0.30	32.7	44.0	29.5	88.0	91.6	4.0	87.1	99.5	13.3	75 - 125	30	
Selenium	BRL	1.2	<29	<28	NC	87.0	87.9	1.0	74.0	82.5	10.9	75 - 125	30	m
Silver	BRL	0.30	0.72	<0.71	NC	94.6	98.1	3.6	93.7	106	12.3	75 - 125	30	
Zinc	BRL	0.30	8960	7280	20.7	95.4	100	4.7	NC	NC	NC	75 - 125	30	
QA/QC Batch 308491 (mg/kg), QC Sample No: BJ07906 (BJ07906)														
ICP Metals - Soil														
Arsenic	BRL	0.69	1.9	1.62	NC	106	109	2.8	99.1	97.6	1.5	75 - 125	30	
Barium	BRL	0.35	31.7	35.1	10.2	110	112	1.8	110	112	1.8	75 - 125	30	
Cadmium	BRL	0.35	<0.32	<0.35	NC	107	117	8.9	100	99.6	0.4	75 - 125	30	
Chromium	BRL	0.35	16.4	16.2	1.20	103	108	4.7	104	102	1.9	75 - 125	30	
Copper	BRL	0.35	12.7	11.0	14.3	103	106	2.9	107	105	1.9	75 - 125	30	
Lead	BRL	0.35	5.44	5.73	5.20	103	107	3.8	97.4	96.7	0.7	75 - 125	30	
Nickel	BRL	0.35	8.47	7.99	5.80	105	108	2.8	100	99.5	0.5	75 - 125	30	
Selenium	BRL	1.4	<1.3	<1.4	NC	105	104	1.0	86.7	85.4	1.5	75 - 125	30	
Silver	BRL	0.35	<0.32	<0.35	NC	104	108	3.8	102	102	0.0	75 - 125	30	
Zinc	BRL	0.35	21.0	18.9	10.5	103	105	1.9	97.6	96.7	0.9	75 - 125	30	
QA/QC Batch 305841 (mg/kg), QC Sample No: BJ07908 (BJ07908)														
ICP Metals - Soil														
Aluminum	BRL	5.0	13900	13600	2.20	102	103	1.0	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.67	3.4	2.53	NC	96.6	97.6	1.0	91.7	90.4	1.4	75 - 125	30	
Barium	BRL	0.33	97.0	70.6	31.5	108	102	5.7	91.2	86.1	5.8	75 - 125	30	r
Cadmium	BRL	0.33	<0.35	<0.39	NC	98.5	99.8	1.3	92.8	91.2	1.7	75 - 125	30	
Chromium	BRL	0.33	30.1	28.5	5.50	102	102	0.0	95.7	100	4.4	75 - 125	30	
Copper	BRL	0.33	51.8	35.5	37.3	105	105	0.0	106	108	1.9	75 - 125	30	r
Lead	BRL	0.33	270	269	0.40	99.3	101	1.7	105	102	2.9	75 - 125	30	
Nickel	BRL	0.33	49.4	43.1	13.6	102	100	2.0	94.2	94.3	0.1	75 - 125	30	
Selenium	BRL	1.3	<1.4	<1.6	NC	91.7	92.9	1.3	81.6	80.4	1.5	75 - 125	30	
Silver	BRL	0.33	<0.35	<0.39	NC	103	105	1.9	104	103	1.0	75 - 125	30	
Zinc	BRL	0.33	48.9	40.4	19.0	104	105	1.0	103	99.2	3.8	75 - 125	30	
QA/QC Batch 307421 (mg/L), QC Sample No: BJ09111 (BJ07908)														
ICP Metals - SPLP Extraction														
Aluminum	BRL	0.10	2.96	2.80	5.60	94.4	93.7	0.7	>130	>130	NC	75 - 125	20	m
Lead	BRL	0.010	0.014	0.014	NC	96.0	94.4	1.7	95.1	95.3	0.2	75 - 125	20	

QA/QC Data

SDG I.D.: GBJ07904

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 308544 (mg/kg), QC Sample No: BJ19326 (BJ07906, BJ07908, BJ07911)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	102	91.1	11.3	108	107	0.9	70 - 130	30
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.

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

June 01, 2015

QA/QC Data

SDG I.D.: GBJ07904

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305870 (PH), QC Sample No: BJ07906 (BJ07906, BJ07908, BJ07909, BJ07911, BJ07912, BJ07915)													
pH - Soil			4.17	3.98	4.70	98.3						85 - 115	20

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QA/QC Report

June 01, 2015

QA/QC Data

SDG I.D.: GBJ07904

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 305834 (ug/kg), QC Sample No: BJ02779 (BJ07904, BJ07905)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	104	108	3.8	98	94	4.2	30 - 130	30	
Acenaphthene	ND	230	90	95	5.4	84	80	4.9	30 - 130	30	
Acenaphthylene	ND	230	93	97	4.2	87	83	4.7	30 - 130	30	
Anthracene	ND	230	106	109	2.8	94	92	2.2	30 - 130	30	
Benz(a)anthracene	ND	230	99	102	3.0	92	89	3.3	30 - 130	30	
Benzo(a)pyrene	ND	230	106	112	5.5	93	94	1.1	30 - 130	30	
Benzo(b)fluoranthene	ND	230	102	116	12.8	102	97	5.0	30 - 130	30	
Benzo(ghi)perylene	ND	230	88	87	1.1	77	77	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	230	119	126	5.7	99	106	6.8	30 - 130	30	
Chrysene	ND	230	95	91	4.3	88	82	7.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	115	116	0.9	96	95	1.0	30 - 130	30	
Fluoranthene	ND	230	108	115	6.3	97	105	7.9	30 - 130	30	
Fluorene	ND	230	130	139	6.7	123	113	8.5	30 - 130	30	I
Indeno(1,2,3-cd)pyrene	ND	230	113	111	1.8	94	93	1.1	30 - 130	30	
Naphthalene	ND	230	99	103	4.0	98	89	9.6	30 - 130	30	
Phenanthrene	ND	230	109	111	1.8	98	94	4.2	30 - 130	30	
Pyrene	ND	230	110	117	6.2	95	105	10.0	30 - 130	30	
% 2-Fluorobiphenyl	91	%	94	100	6.2	90	82	9.3	30 - 130	30	
% Nitrobenzene-d5	91	%	100	104	3.9	100	94	6.2	30 - 130	30	
% Terphenyl-d14	118	%	107	114	6.3	90	103	13.5	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 305843 (mg/Kg), QC Sample No: BJ07734 (BJ07904, BJ07905, BJ07914)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum HC	ND	50	67	71	5.8	69	64	7.5	60 - 120	30	
% n-Pentacosane	79	%	77	54	35.1	75	76	1.3	50 - 150	30	r
QA/QC Batch 305835 (mg/kg), QC Sample No: BJ07799 10X (BJ07914)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	0.17	75	73	2.7	75	74	1.3	40 - 140	30	
PCB-1221	ND	0.17							40 - 140	30	
PCB-1232	ND	0.17							40 - 140	30	
PCB-1242	ND	0.17							40 - 140	30	
PCB-1248	ND	0.17							40 - 140	30	
PCB-1254	ND	0.17							40 - 140	30	
PCB-1260	ND	0.17	84	85	1.2	88	88	0.0	40 - 140	30	
PCB-1262	ND	0.17							40 - 140	30	
PCB-1268	ND	0.17							40 - 140	30	
% DCBP (Surrogate Rec)	80	%	79	80	1.3	83	82	1.2	30 - 150	30	
% TCMX (Surrogate Rec)	89	%	86	79	8.5	87	83	4.7	30 - 150	30	

QA/QC Data

SDG I.D.: GBJ07904

QA/QC Batch 306844 (ug/kg), QC Sample No: BJ07858 (BJ07904 (1X, 50X) , BJ07905, BJ07916 (50X) , BJ07917)

Volatiles - Soil

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1,1,2-Tetrachloroethane	ND	5.0	100	100	0.0	98	103	5.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	99	103	4.0	104	109	4.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	107	0.9	95	101	6.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	99	100	1.0	100	105	4.9	70 - 130	30	
1,1-Dichloroethane	ND	5.0	99	100	1.0	101	108	6.7	70 - 130	30	
1,1-Dichloroethene	ND	5.0	101	105	3.9	95	102	7.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	102	1.0	94	100	6.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	101	103	2.0	71	70	1.4	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	100	100	0.0	96	102	6.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	99	100	1.0	68	67	1.5	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	96	96	0.0	96	101	5.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	103	103	0.0	93	98	5.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	102	101	1.0	92	94	2.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	102	2.0	84	88	4.7	70 - 130	30	
1,2-Dichloroethane	ND	5.0	98	101	3.0	96	104	8.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	99	0.0	100	106	5.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	98	101	3.0	98	104	5.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	99	100	1.0	81	85	4.8	70 - 130	30	
1,3-Dichloropropane	ND	5.0	100	99	1.0	95	99	4.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	98	98	0.0	77	80	3.8	70 - 130	30	
2,2-Dichloropropane	ND	5.0	104	106	1.9	98	107	8.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	98	98	0.0	87	90	3.4	70 - 130	30	
2-Hexanone	ND	25	91	95	4.3	94	101	7.2	70 - 130	30	
2-Isopropyltoluene	ND	5.0	99	100	1.0	97	104	7.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	98	100	2.0	92	98	6.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	97	0.0	102	107	4.8	70 - 130	30	
Acetone	ND	10	90	84	6.9	>200	>200	NC	70 - 130	30	m
Acrylonitrile	ND	5.0	99	100	1.0	97	103	6.0	70 - 130	30	
Benzene	ND	1.0	102	103	1.0	100	108	7.7	70 - 130	30	
Bromobenzene	ND	5.0	102	101	1.0	87	92	5.6	70 - 130	30	
Bromochloromethane	ND	5.0	103	105	1.9	83	92	10.3	70 - 130	30	
Bromodichloromethane	ND	5.0	103	105	1.9	98	106	7.8	70 - 130	30	
Bromoform	ND	5.0	101	103	2.0	90	96	6.5	70 - 130	30	
Bromomethane	ND	5.0	93	105	12.1	116	130	11.4	70 - 130	30	
Carbon Disulfide	ND	5.0	106	109	2.8	81	86	6.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	103	103	0.0	101	108	6.7	70 - 130	30	
Chlorobenzene	ND	5.0	99	99	0.0	88	92	4.4	70 - 130	30	
Chloroethane	ND	5.0	96	104	8.0	113	119	5.2	70 - 130	30	
Chloroform	ND	5.0	104	107	2.8	102	108	5.7	70 - 130	30	
Chloromethane	ND	5.0	100	110	9.5	114	119	4.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	104	1.9	95	100	5.1	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	102	106	3.8	89	93	4.4	70 - 130	30	
Dibromochloromethane	ND	3.0	103	104	1.0	94	100	6.2	70 - 130	30	
Dibromomethane	ND	5.0	104	102	1.9	94	98	4.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	105	109	3.7	99	104	4.9	70 - 130	30	
Ethylbenzene	ND	1.0	101	101	0.0	95	100	5.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0	102	104	1.9	78	86	9.8	70 - 130	30	
Isopropylbenzene	ND	1.0	99	98	1.0	99	104	4.9	70 - 130	30	
m&p-Xylene	ND	2.0	100	100	0.0	95	100	5.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	97	98	1.0	102	106	3.8	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ07904

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	1.0	141	145	2.8	142	151	6.1	70 - 130	30	l,m
Methylene chloride	ND	5.0	98	101	3.0	NC	NC	NC	70 - 130	30	
Naphthalene	ND	5.0	102	103	1.0	74	75	1.3	70 - 130	30	
n-Butylbenzene	ND	1.0	97	95	2.1	85	90	5.7	70 - 130	30	
n-Propylbenzene	ND	1.0	94	92	2.2	92	99	7.3	70 - 130	30	
o-Xylene	ND	2.0	99	100	1.0	95	102	7.1	70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	97	1.0	94	100	6.2	70 - 130	30	
sec-Butylbenzene	ND	1.0	102	103	1.0	96	103	7.0	70 - 130	30	
Styrene	ND	5.0	100	99	1.0	86	91	5.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	100	100	0.0	99	106	6.8	70 - 130	30	
Tetrachloroethene	ND	5.0	98	98	0.0	93	96	3.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	99	101	2.0	103	108	4.7	70 - 130	30	
Toluene	ND	1.0	101	101	0.0	98	103	5.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	103	157	41.5	124	142	13.5	70 - 130	30	l,m,r
trans-1,3-Dichloropropene	ND	5.0	104	105	1.0	83	86	3.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	101	100	1.0	82	84	2.4	70 - 130	30	
Trichloroethene	ND	5.0	99	100	1.0	NC	NC	NC	70 - 130	30	
Trichlorofluoromethane	ND	5.0	92	99	7.3	106	112	5.5	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	100	104	3.9	103	107	3.8	70 - 130	30	
Vinyl chloride	ND	5.0	103	107	3.8	101	108	6.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	98	1.0	101	100	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	100	99	1.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	101	99	2.0	99	105	5.9	70 - 130	30	
% Toluene-d8	99	%	104	100	3.9	103	104	1.0	70 - 130	30	

Comment:

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

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

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
June 01, 2015

Sample Criteria Exceedences Report

GBJ07904 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ07904	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	44000	7100	4000	4000	ug/Kg
BJ07904	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	22000	7100	4000	4000	ug/Kg
BJ07904	$8100SMR	Fluorene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7100	5600	5600	ug/Kg
BJ07904	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7100	5600	5600	ug/Kg
BJ07904	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	11000	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	11000	7100	1000	1000	ug/Kg
BJ07904	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	7100	1000	1000	ug/Kg
BJ07904	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	23000	1500	500	500	mg/Kg
BJ07904	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	23000	1500	500	500	mg/Kg
BJ07905	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1100	130	500	500	mg/Kg
BJ07905	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1100	130	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ07904, BJ07905, BJ07906, BJ07908, BJ07909, BJ07911, BJ07912, BJ07914, BJ07915, BJ07916, BJ07917

Sampling Date(s): 4/24/2015

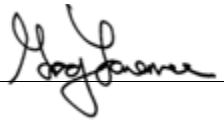
RCP Methods Used:

☑ 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, PAH 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: 

Date: Monday, June 01, 2015

Printed Name: Greg Lawrence

Position: Assistant Lab Director

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 01, 2015

SDG I.D.: GBJ07904

BJ07904 and BJ07905 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH compounds are reported as requested on the chain-of-custody.

BJ07906, BJ07908, BJ07911 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

BJ07909, BJ07912 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

Sample ID BJ07904 PAH Analysis:
Due to the concentration of target and non-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 305843 (Samples: BJ07904, BJ07905, BJ07914): -----

The LCS/LCSD RPD exceeds the method criteria for the surrogate. The LCSD recovery was low. All of the other surrogates and QC recoveries are acceptable. Therefore no significant bias is suspected. (% n-Pentacosane)

Instrument: Au-fid84 04/27/15-2 (BJ07905, BJ07914)

Initial Calibration (FID84 - ETPH_413) - 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: 4/27/2015

Instrument: Au-fid84 04/29/15-2 (BJ07904)

Initial Calibration (FID84 - ETPH_413) - 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: 4/29/2015

Instrument: Aufid-d1 04/25/15-2 (BJ07905, BJ07914)

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RCP Certification Report

June 01, 2015

SDG I.D.: GBJ07904

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: 4/25/2015

QC (Batch Specific)

---------- Sample No: BJ07734, QA/QC Batch: 305843 ----------

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(35.1%)

Mercury Narration

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

Instrument: Merlin 05/21/15-1 (BJ07906, BJ07908, BJ07911)

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: 5/21/2015

QC (Batch Specific)

---------- Sample No: BJ19326, QA/QC Batch: 308544 ----------

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.

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RCP Certification Report

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SDG I.D.: GBJ07904

ICP Narration

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

QC Batch 305841 (Samples: BJ07908) ----

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

Instrument: Arcos 04/27/15-1 (BJ07909, BJ07911, BJ07912)

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: 4/27/2015

Instrument: Arcos 04/28/15-1 (BJ07908, BJ07909, BJ07911, BJ07912)

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: 4/28/2015

Instrument: Arcos 05/11/15-1 (BJ07908)

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: 5/11/2015

Instrument: Arcos 05/12/15-1 (BJ07908)

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.

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June 01, 2015

SDG I.D.: GBJ07904

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: 5/12/2015

Instrument: Arcos 05/23/15-1 (BJ07906)

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: 5/23/2015

Instrument: Arcos 05/24/15-1 (BJ07906)

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: 5/24/2015

Instrument: Blue 04/24/15-1 (BJ07908)

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 Emily Kolominskaya
Position: Chemist
Date: 4/24/2015

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RCP Certification Report

June 01, 2015

SDG I.D.: GBJ07904

QC (Batch Specific)

---------- Sample No: BJ07856, QA/QC Batch: 306028 ----------

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: BJ07906, QA/QC Batch: 308491 ----------

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: BJ07908, QA/QC Batch: 305841 ----------

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: BJ09111, QA/QC Batch: 307421 ----------

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? No.

QC Batch 305834 (Samples: BJ07904, BJ07905): -----

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. (Fluorene)

Instrument: Chem05 04/28/15-2 (BJ07904, BJ07905)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0428_02-BN_0415):

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RCP Certification Report

June 01, 2015

SDG I.D.: GBJ07904

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: 4/28/2015

Instrument: Chem19 04/26/15-1 (BJ07905)

Initial Calibration Verification (CHEM19/BN_0420):
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 (CHEM19/0426_03-BN_0420):
90% 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: Benzo(b)fluoranthene (-35%)[30%], Benzo(k)fluoranthene (-31%)[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 Damien Drobinski
Position: Chemist
Date: 4/26/2015

QC (Batch Specific)

---------- Sample No: BJ02779, QA/QC Batch: 305834 ----------

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

All LCSD recoveries were within 30 - 130 with the following exceptions: Fluorene(139%)

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-ecd6 04/27/15-1 (BJ07914)

The initial calibration (PC420AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC420BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

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

June 01, 2015

SDG I.D.: GBJ07904

Printed Name Adam Werner
Position: Chemist
Date: 4/27/2015

QC (Batch Specific)

---------- Sample No: BJ07799, QA/QC Batch: 305835 ----------

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.

VOA Narration

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

QC Batch 306844 (Samples: BJ07904, BJ07905, BJ07916, BJ07917): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Methyl t-butyl ether (MTBE), trans-1,2-Dichloroethene)

Instrument: Chem03 05/04/15-2 (BJ07904)

Initial Calibration Verification (CHEM03/RCPS_0504):
92% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2,3-Trichlorobenzene (30%), 1,2,4-Trichlorobenzene (28%), 1,2,4-Trimethylbenzene (24%), Naphthalene (38%), n-Butylbenzene (21%), p-Isopropyltoluene (22%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0504L58-RCPS_0504):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Naphthalene (-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 Jane Li
Position: Chemist
Date: 5/4/2015

Instrument: Chem14 05/04/15-1 (BJ07904, BJ07905, BJ07916, BJ07917)

Initial Calibration Verification (CHEM14/voa5g_0504):
100% of target compounds met criteria.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 01, 2015

SDG I.D.: GBJ07904

The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM14/0504_15-voa5g_0504):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 5/4/2015

QC (Batch Specific)

---------- Sample No: BJ07858, QA/QC Batch: 306844 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Methyl t-butyl ether (MTBE)(141%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Methyl t-butyl ether (MTBE)(145%), trans-1,2-Dichloroethene(157%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: trans-1,2-Dichloroethene(41.5%)

Temperature Narration

The samples were received at 2C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

2 coolers

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- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 32792

Turnaround
- [ ] 24-Hour*
- [ ] 72-Hour*
- [ ] Other _____ (days)
- [ ] 48-Hour*
- [X] Standard (5 days)
- *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	2001454.P20	

REPORT TO: Kevin Vandervees F+O

INVOICE TO: same

P.O. NO.: Quote # F0040315BA

Sampler's Signature: _____ Date: 4/24/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	pH	Aluminum	ETPH	PAHs	PCBs (Soxhlet)	HOLD	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz	Na(SO4)2	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500	Plastic - H_2SO_4 ☐ 250 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
01		1251150424 - 01	S	4/24/15	0800	X			X	X			1	2	1				07904						
02		-02			0945	X			X	X			1	2	1				07905						
03		-03			1030		X								1				07906						Hold All additional volume for future analysis
04		-04			1045						X								07907						
05		-05			~~1130~~ 1145		X	X											07908						
06		-06			1145		X	X											07909						
07		-07			~~1155~~ 1230						X								07910						
08		-08			~~1230~~ 1245		X	X											07911						
09		-09			1245		X	X											07912						
10		-10			~~1245~~ 1345						X								07913						

Transfer Number	Relinquished By	Accepted By	Date	Time
1			4/24/15	17:29
2				
3				
4				

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

Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.
Res Dec / GA PMC

Additional Comments:
See quote

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- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 32791

Turnaround
- [ ] 24-Hour*
- [ ] 72-Hour*
- [ ] Other _____ (days)
- [ ] 48-Hour*
- [X] Standard (5 days)
*Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	20014454.P20	

Report To: Kevin Vanderveer (F+O)
Invoice To: same
P.O. No.: Quote # F0040315BA
Sampler's Signature: _____ Date: 4/24/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request: VOCs (8260) + MTBE; PAHs (soxhlet); PH; ETPH

Containers: Soil VOA Vial, X methanol; Soil VOA Vial, X water; Glass Soil Container (8) oz; Other; Other; Water VOA Vial, ☐ As is ☐ HCl; Glass Amber ( ) ml, ☐ As is ☐ H2SO4; Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml; Plastic - H2SO4, ☐ 250 ml ☐ 500 ml; Plastic - HNO3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ; Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260) + MTBE	PAHs (soxhlet)	PH	ETPH	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H2SO4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H2SO4, ☐ 250 ml ☐ 500 ml	Plastic - HNO3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					125115042H-11	S	4/24/15	1345		X		X			1			07914						Hold
12					-12	↓		1400			X				1			07915						additional
13					-13	X		1405	X					1				07916						volumes
14					-14	↓	↓	1406	X							2		07917						for
																								future
																								Analysis

Transfer Number	Relinquished By	Accepted By	Date	Time
1			4/24/15	17:20
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt [X] QA/QC ☐ Other _____
_2_ Duplicates _2_ Blanks (Item Nos: 13, 14)
Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.
Res DEC / GA PMC
Additional Comments:
see Quote

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Tuesday, May 19, 2015 2:02 PM
To: bobbi@phoenixlabs.com
Subject: Anocoil - Additional Metals Analysis Request (BJ07906, 07908, 07911)

Bobbi,

Do you have enough volume in samples BJ07906, BJ07908, and BJ07911 to run total RCRA 8 metals plus copper, nickel, and zinc? If so, could you activate them for analysis?

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Thursday, May 28, 2015 7:16 AM
To: bobbi@phoenixlabs.com
Subject: Anocoil - SPLP Lead Request - BJ07908

Bobbi,

Please run SPLP lead on sample BJ07908.

Thanks,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 07, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ08280 - BJ08282, BJ08284, BJ08289, BJ08291, BJ08294, BJ08297 - BJ08298

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

REVIEWED DMS
By pbibeau at 12:46 pm, May 18, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 13, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ08280 - BJ08282, BJ08284 - BJ08285, BJ08289, BJ08291, BJ08293 - BJ08294, BJ08297 - BJ08298, BJ08300

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED
By pbibeau at 12:46 pm, May 18, 2015 DMS

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	8:35
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08280

Project ID: ANOCOIL
Client ID: 1251150427-15

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/27/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-15

Trip Blank - high

Phoenix I.D.: BJ08280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/06/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/06/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	05/06/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	05/06/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/06/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	05/06/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150427-15

Trip Blank - high

Phoenix I.D.: BJ08280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	50	05/06/15	JLI	70 - 130 %
% Toluene-d8	96		%	50	05/06/15	JLI	70 - 130 %

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

Comments:

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

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

If 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
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	8:36
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08281

Project ID: ANOCOIL
Client ID: 1251150427-16

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/27/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-16

Trip Blank - low

Phoenix I.D.: BJ08281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/06/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/06/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150427-16

Trip Blank - low

Phoenix I.D.: BJ08281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	99		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/06/15	JLI	70 - 130 %

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

Comments:

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

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

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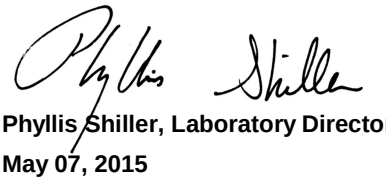

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	9:05
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08282

Project ID: ANOCOIL
Client ID: 1251150427-17

SB-09 (0.5-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Arsenic	1.9	0.8	mg/Kg	1	04/28/15	EK	SW6010C
Barium	39.9	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Chromium	10.9	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Copper	10.6	0.39	mg/kg	1	04/28/15	EK	SW6010C
Mercury	0.05	0.03	mg/Kg	1	04/29/15	RS	SW7471B
Nickel	7.04	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Lead	52.7	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/28/15	EK	SW6010C
Zinc	37.7	0.39	mg/Kg	1	04/28/15	EK	SW6010C
Percent Solid	90		%		04/27/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/27/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/27/15	CC/V	SW3545A
Mercury Digestion	Completed				04/29/15	I/I	SW7471B
Extraction for PCB	Completed				04/27/15	PP/W	SW3540C
Total Metals Digest	Completed				04/27/15	CB/AG	SW3050B
Field Extraction	Completed				04/27/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	04/28/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/28/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/28/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1221	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A

Project ID: ANOCOIL
Client ID: 1251150427-17

SB-09 (0.5-4.5')

Phoenix I.D.: BJ08282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1242	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1248	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1254	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1260	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1262	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1268	ND	0.37	mg/kg	10	04/28/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	88		%	10	04/28/15	KCA	30 - 150 %
% TCMX	81		%	10	04/28/15	KCA	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	25	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Bromochloromethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Isopropylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
m&p-Xylene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.2	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
n-Butylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
n-Propylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
o-Xylene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Styrene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Tetrachloroethene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.2	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.2	ug/Kg	1	05/06/15	JLI	SW8260
Trichloroethene	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	4.1	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	85		%	1	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	96		%	1	05/06/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	310	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-17

SB-09 (0.5-4.5')

Phoenix I.D.: BJ08282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	330	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	350	260	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	73		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	85		%	1	04/28/15	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.
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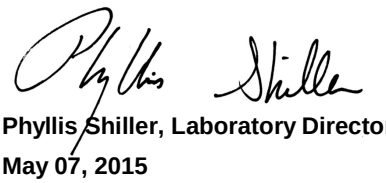

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	9:40
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08284

Project ID: ANOCOIL
Client ID: 1251150427-19 MW-01 (6-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.34	0.34	mg/Kg	1	04/29/15	LK	SW6010C	
Arsenic	6.0	0.7	mg/Kg	1	04/29/15	LK	SW6010C	
Barium	86.8	0.34	mg/Kg	1	04/29/15	LK	SW6010C	
Cadmium	< 0.34	0.34	mg/Kg	1	04/29/15	LK	SW6010C	
Chromium	13.5	0.34	mg/Kg	1	04/29/15	LK	SW6010C	
Copper	34.0	0.34	mg/kg	1	04/29/15	LK	SW6010C	B
Mercury	1.96	0.07	mg/Kg	1	04/29/15	RS	SW7471B	
Nickel	8.08	0.34	mg/Kg	1	04/29/15	LK	SW6010C	
Lead	221	3.4	mg/Kg	10	04/30/15	EK	SW6010C	
Antimony	< 3.4	3.4	mg/Kg	1	04/30/15	LK	SW6010C	
Selenium	< 1.4	1.4	mg/Kg	1	04/29/15	LK	SW6010C	
SPLP Mercury	< 0.0005	0.0005	mg/L	1	05/11/15	RS	SW7470A	
SPLP Lead	0.152	0.010	mg/L	1	05/12/15	LK	SW6010C	
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A	
Zinc	94.6	0.34	mg/Kg	1	04/29/15	LK	SW6010C	B
Percent Solid	89		%		04/28/15	I	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A	
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A	
Mercury Digestion	Completed				04/29/15	I/I	SW7471B	
Extraction for PCB	Completed				04/28/15	PP/w	SW3540C	
SPLP Digestion Mercury	Completed				05/11/15	I/I	SW1312/SW7470A	
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312	
Total Metals Digest	Completed				04/28/15	CB/AG	SW3050B	
Field Extraction	Completed				04/27/15		SW5035A	
TPH by GC (Extractable Products)								
Ext. Petroleum HC	190	56	mg/Kg	1	04/29/15	JRB	CTETPH 8015D	
Identification	**		mg/Kg	1	04/29/15	JRB	CTETPH 8015D	

Project ID: ANOCOIL
Client ID: 1251150427-19

MW-01 (6-7')

Phoenix I.D.: BJ08284

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% n-Pentacosane	74		%	1	04/29/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1232	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	110		%	10	04/29/15	KCA	30 - 150 %
% TCMX	97		%	10	04/29/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	28	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	510	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/06/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-19

MW-01 (6-7')

Phoenix I.D.: BJ08284

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	420	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	480	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	680	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	390	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	640	260	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	1000	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	350	260	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	750	260	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	910	260	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	84		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	90		%	1	04/28/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	9:50
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08285

Project ID: ANOCOIL
Client ID: 1251150427-20 MW-01 (15-17')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		05/08/15	I	SW846-%Solid
Extraction of CT ETPH	Completed				05/08/15	JJ/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	60	mg/Kg	1	05/10/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/10/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	05/10/15	JRB	50 - 150 %

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.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	11:00
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08289

Project ID: ANOCOIL
Client ID: 1251150427-24

MW-02 (11-13')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.37	0.37	mg/Kg	1	04/29/15	LK	SW6010C	
Arsenic	4.9	0.7	mg/Kg	1	04/29/15	LK	SW6010C	
Barium	119	0.37	mg/Kg	1	04/29/15	LK	SW6010C	
Cadmium	0.60	0.37	mg/Kg	1	04/29/15	LK	SW6010C	
Chromium	27.6	0.37	mg/Kg	1	04/29/15	LK	SW6010C	
Copper	72.3	0.37	mg/kg	1	04/29/15	LK	SW6010C	B
Mercury	0.24	0.03	mg/Kg	1	04/29/15	RS	SW7471B	
Nickel	15.1	0.37	mg/Kg	1	04/29/15	LK	SW6010C	
Lead	284	3.7	mg/Kg	10	04/30/15	EK	SW6010C	
Antimony	< 3.7	3.7	mg/Kg	1	04/30/15	LK	SW6010C	
Selenium	< 1.5	1.5	mg/Kg	1	04/29/15	EK	SW6010C	
SPLP Lead	0.048	0.010	mg/L	1	05/12/15	LK	SW6010C	
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A	
Zinc	206	3.7	mg/Kg	10	04/30/15	EK	SW6010C	B
Percent Solid	87		%		04/28/15	I	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A	
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A	
Mercury Digestion	Completed				04/29/15	I/I	SW7471B	
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C	
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312	
Total Metals Digest	Completed				04/28/15	CB/AG	SW3050B	
Field Extraction	Completed				04/27/15		SW5035A	
TPH by GC (Extractable Products)								
Ext. Petroleum HC	89	56	mg/Kg	1	04/29/15	JRB	CTETPH 8015D	
Identification	**		mg/Kg	1	04/29/15	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	85		%	1	04/29/15	JRB	50 - 150 %	

Project ID: ANOCOIL
Client ID: 1251150427-24

MW-02 (11-13')

Phoenix I.D.: BJ08289

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1232	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.37	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	04/29/15	KCA	30 - 150 %
% TCMX	90		%	10	04/29/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	51	27	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbon Disulfide	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Chloroform	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	1700	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	490	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	4.5	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/06/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	420	260	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	430	260	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	1200	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	1200	260	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-24

MW-02 (11-13')

Phoenix I.D.: BJ08289

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	1300	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	880	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	480	260	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	1300	260	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	300	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	2400	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	760	260	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	530	260	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	1400	260	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	2300	260	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	92		%	1	04/28/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

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

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

Phyllis Shiller, Laboratory Director

May 13, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	12:10
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08291

Project ID: ANOCOIL
Client ID: 1251150427-26 SB-13 (7.5-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.41	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Arsenic	3.9	0.8	mg/Kg	1	04/29/15	LK	SW6010C	
Barium	44.8	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Cadmium	< 0.41	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Chromium	13.1	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Copper	17.1	0.41	mg/kg	1	04/29/15	LK	SW6010C	B
Mercury	0.13	0.03	mg/Kg	1	04/29/15	RS	SW7471B	
Nickel	8.93	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Lead	74.7	0.41	mg/Kg	1	04/29/15	LK	SW6010C	
Selenium	< 1.6	1.6	mg/Kg	1	04/29/15	LK	SW6010C	
Zinc	48.3	0.41	mg/Kg	1	04/29/15	LK	SW6010C	B
Percent Solid	86		%		04/28/15	I	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A	
Extraction of CT ETPH	Completed				04/30/15	JC/V	SW3545A	
Mercury Digestion	Completed				04/29/15	I/I	SW7471B	
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C	
Total Metals Digest	Completed				04/28/15	CB/AG	SW3050B	
Field Extraction	Completed				04/27/15		SW5035A	
TPH by GC (Extractable Products)								
Ext. Petroleum HC	ND	58	mg/Kg	1	05/01/15	JRB	CTETPH 8015D	
Identification	ND		mg/Kg	1	05/01/15	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	92		%	1	05/01/15	JRB	50 - 150 %	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A	
PCB-1221	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A	

Project ID: ANOCOIL
Client ID: 1251150427-26

SB-13 (7.5-10')

Phoenix I.D.: BJ08291

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	102		%	10	04/29/15	KCA	30 - 150 %
% TCMX	91		%	10	04/29/15	KCA	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	27	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-26

SB-13 (7.5-10')

Phoenix I.D.: BJ08291

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.8	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.8	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	480	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	4.4	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/06/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	660	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	740	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	920	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	640	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	350	270	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	910	270	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-26

SB-13 (7.5-10')

Phoenix I.D.: BJ08291

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	1600	270	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	530	270	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	1100	270	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	1500	270	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	79		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	97		%	1	04/28/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

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

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	12:55
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08293

Project ID: ANOCOIL
Client ID: 1251150427-28 SB-14 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.43	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Arsenic	2.0	0.9	mg/Kg	1	04/28/15	EK	SW6010C
Barium	37.2	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Cadmium	< 0.43	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Chromium	16.8	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Copper	13.3	0.43	mg/kg	1	04/28/15	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/29/15	RS	SW7471B
Nickel	8.73	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Lead	6.89	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/28/15	EK	SW6010C
Zinc	19.4	0.43	mg/Kg	1	04/28/15	EK	SW6010C
Percent Solid	79		%		04/27/15	I	SW846-%Solid
pH - Soil	4.16	0.10	pH Units	1	04/27/15 18:50	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				04/27/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/27/15	CC/V	SW3545A
Mercury Digestion	Completed				04/29/15	I/I	SW7471B
Extraction for PCB	Completed				04/27/15	PP/W	SW3540C
Total Metals Digest	Completed				04/27/15	CB/AG	SW3050B
Field Extraction	Completed				04/27/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	63	mg/Kg	1	04/28/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/28/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	04/28/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A

Project ID: ANOCOIL
Client ID: 1251150427-28

SB-14 (0-2')

Phoenix I.D.: BJ08293

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1221	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1232	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1242	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1248	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1254	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1260	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1262	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
PCB-1268	ND	0.42	mg/kg	10	04/28/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	98		%	10	04/28/15	KCA	30 - 150 %
% TCMX	85		%	10	04/28/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.5	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	29	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	29	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	35	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-28

SB-14 (0-2')

Phoenix I.D.: BJ08293

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Chloroform	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	3.5	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	35	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	290	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	580	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	5.8	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/06/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-28

SB-14 (0-2')

Phoenix I.D.: BJ08293

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chrysene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	ND	290	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	61		%	1	04/28/15	DD	30 - 130 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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

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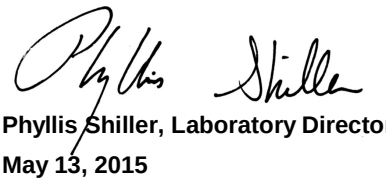

Phyllis Shiller, Laboratory Director

May 13, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	13:10
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08294

Project ID: ANOCOIL
Client ID: 1251150427-29 SB-11 (9-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.35	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Arsenic	4.0	0.7	mg/Kg	1	04/29/15	LK	SW6010C	
Barium	61.3	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Cadmium	0.55	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Chromium	14.6	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Copper	109	0.35	mg/kg	1	04/30/15	LK	SW6010C	B
Mercury	0.67	0.03	mg/Kg	1	04/29/15	RS	SW7471B	
Nickel	17.8	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Lead	139	0.35	mg/Kg	1	04/29/15	LK	SW6010C	
Selenium	< 1.4	1.4	mg/Kg	1	04/29/15	LK	SW6010C	
Zinc	68.0	0.35	mg/Kg	1	04/29/15	LK	SW6010C	B
Percent Solid	90		%		04/28/15	I	SW846-%Solid	
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A	
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A	
Mercury Digestion	Completed				04/29/15	I/I	SW7471B	
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C	
Total Metals Digest	Completed				04/28/15	CB/AG	SW3050B	
Field Extraction	Completed				04/27/15		SW5035A	
TPH by GC (Extractable Products)								
Ext. Petroleum HC	400	110	mg/Kg	2	04/30/15	JRB	CTETPH 8015D	
Identification	**		mg/Kg	2	04/30/15	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	75		%	2	04/30/15	JRB	50 - 150 %	
PCB (Soxhlet SW3540C)								
PCB-1016	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A	
PCB-1221	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A	

Project ID: ANOCOIL
Client ID: 1251150427-29

SB-11 (9-10')

Phoenix I.D.: BJ08294

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1242	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1248	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1254	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1260	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1262	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1268	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	105		%	10	04/30/15	KCA	30 - 150 %
% TCMX	85		%	10	04/30/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/06/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,3-Trichloropropane	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
1,4-Dichlorobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
2-Chlorotoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
2-Isopropyltoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
4-Chlorotoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/06/15	JLI	SW8260
Acetone	ND	28	ug/Kg	1	05/06/15	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromobenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	05/06/15	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Hexachlorobutadiene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Isopropylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/06/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	05/06/15	JLI	SW8260
Methylene chloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Naphthalene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
n-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
n-Propylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
p-Isopropyltoluene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
sec-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
tert-Butylbenzene	ND	240	ug/Kg	50	05/06/15	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	05/06/15	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	470	ug/Kg	50	05/06/15	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	05/06/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/06/15	JLI	70 - 130 %
% Bromofluorobenzene	92		%	50	05/06/15	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/06/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	05/06/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	650	260	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	1100	260	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	5200	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	5000	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	7000	1300	ug/Kg	5	04/29/15	DD	SW8270D
Benzo(ghi)perylene	4000	260	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	1600	260	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	6000	1300	ug/Kg	5	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150427-29

SB-11 (9-10')

Phoenix I.D.: BJ08294

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	9700	1300	ug/Kg	5	04/29/15	DD	SW8270D
Fluorene	290	260	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	3400	260	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	280	260	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	5500	1300	ug/Kg	5	04/29/15	DD	SW8270D
Pyrene	8800	1300	ug/Kg	5	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	101		%	1	04/28/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	13:50
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08297

Project ID: ANOCOIL
Client ID: 1251150427-32

MW-03 (10-11.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	75		%		04/27/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/27/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/27/15	CC/V	SW3545A
Field Extraction	Completed				04/27/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1300	130	mg/Kg	2	04/29/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	2	04/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	2	04/29/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-32

MW-03 (10-11.5')

Phoenix I.D.: BJ08297

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
2-Chlorotoluene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	05/07/15	JLI	SW8260
2-Isopropyltoluene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
4-Chlorotoluene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/07/15	JLI	SW8260
Acetone	68	32	ug/Kg	1	05/07/15	JLI	SW8260
Acrylonitrile	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Benzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Bromobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Bromochloromethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Bromoform	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Bromomethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Chlorobenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Chloroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Chloroform	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Chloromethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	05/07/15	JLI	SW8260
Dibromomethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Ethylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Hexachlorobutadiene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Isopropylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
m&p-Xylene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	05/07/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	05/07/15	JLI	SW8260
Methylene chloride	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Naphthalene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
n-Butylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
n-Propylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
o-Xylene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
p-Isopropyltoluene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
sec-Butylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Styrene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
tert-Butylbenzene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	05/07/15	JLI	SW8260
Toluene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Total Xylenes	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-32

MW-03 (10-11.5')

Phoenix I.D.: BJ08297

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	05/07/15	JLI	SW8260
Trichloroethene	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
Vinyl chloride	ND	5.3	ug/Kg	1	05/07/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	81		%	1	05/07/15	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	05/07/15	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/07/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/07/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	310	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	310	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	1200	310	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	510	310	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	2300	310	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	2100	310	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	2200	310	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	490	310	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	680	310	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	2500	310	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	310	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	1500	310	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	310	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	510	310	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	310	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	510	310	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	4500	310	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	65		%	1	04/28/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150427-32

MW-03 (10-11.5')

Phoenix I.D.: BJ08297

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

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

Comments:

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

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

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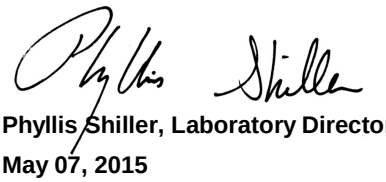

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	13:55
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08298

Project ID: ANOCOIL
Client ID: 1251150427-33 MW-03 (10-11.5') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	73		%		04/27/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/27/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/27/15	CC/V	SW3545A
Field Extraction	Completed				04/27/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1100	68	mg/Kg	1	04/28/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/28/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	04/28/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-33

MW-03 (10-11.5') Field Duplicate

Phoenix I.D.: BJ08298

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/07/15	JLI	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/07/15	JLI	SW8260
Acetone	110	30	ug/Kg	1	05/07/15	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Bromobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Chloroform	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/07/15	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/07/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/07/15	JLI	SW8260
Methylene chloride	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Naphthalene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
p-Isopropyltoluene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/07/15	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-33

MW-03 (10-11.5') Field Duplicate

Phoenix I.D.: BJ08298

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/07/15	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	05/07/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	91		%	1	05/07/15	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	05/07/15	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	05/07/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/07/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	320	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	320	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	1500	320	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	610	320	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	2900	320	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	2900	320	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	3500	320	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	600	320	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	1100	320	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	3100	320	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	1300	320	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	320	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	590	320	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	320	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	440	320	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	4200	320	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	82		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	65		%	1	04/28/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150427-33

MW-03 (10-11.5') Field Duplicate

Phoenix I.D.: BJ08298

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

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

Comments:

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

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

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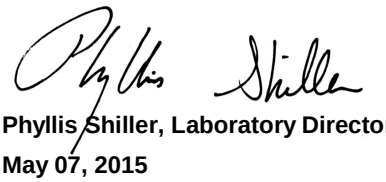

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/27/15	15:00
Location Code:	F&O-PCB	Received by:	SW	04/27/15	16:44
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ08280
Phoenix ID: BJ08300

Project ID: ANOCOIL
Client ID: 1251150427-35

SB-16 (10-11.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		05/08/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				05/08/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				05/08/15	JJ/V	SW3545A
Field Extraction	Completed				04/27/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	59	mg/Kg	1	05/09/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	05/09/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	05/09/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/11/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-35

SB-16 (10-11.5')

Phoenix I.D.: BJ08300

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	05/11/15	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	05/11/15	JLI	SW8260
Acetone	ND	26	ug/Kg	1	05/11/15	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	05/11/15	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/11/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	05/11/15	JLI	SW8260
Methylene chloride	4.4	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	05/11/15	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150427-35

SB-16 (10-11.5')

Phoenix I.D.: BJ08300

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.7	ug/Kg	1	05/11/15	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	05/11/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/11/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/11/15	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	05/11/15	JLI	70 - 130 %
% Toluene-d8	100		%	1	05/11/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	05/09/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	85		%	1	05/09/15	DD	30 - 130 %
% Nitrobenzene-d5	90		%	1	05/09/15	DD	30 - 130 %
% Terphenyl-d14	49		%	1	05/09/15	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.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 306033 (mg/kg), QC Sample No: BJ08201 (BJ08282, BJ08293)														
ICP Metals - Soil														
Arsenic	BRL	0.62	0.9	1.30	NC	97.3	103	5.7	90.7	90.3	0.4	75 - 125	30	
Barium	BRL	0.31	48.4	57.9	17.9	90.5	99.6	9.6	103	99.1	3.9	75 - 125	30	
Cadmium	BRL	0.31	<0.35	<0.36	NC	88.4	95.8	8.0	87.7	87.2	0.6	75 - 125	30	
Chromium	BRL	0.31	17.7	18.9	6.60	90.6	97.8	7.6	95.9	95.7	0.2	75 - 125	30	
Copper	BRL	0.31	15.4	18.3	17.2	98.1	106	7.7	109	108	0.9	75 - 125	30	
Lead	BRL	0.31	4.7	5.53	16.2	91.6	101	9.8	89.5	88.8	0.8	75 - 125	30	
Nickel	BRL	0.31	11.9	13.3	11.1	89.6	96.9	7.8	91.8	90.6	1.3	75 - 125	30	
Selenium	BRL	1.2	<1.4	<1.4	NC	94.2	98.6	4.6	80.9	80.2	0.9	75 - 125	30	
Silver	BRL	0.31	<0.35	<0.36	NC	98.3	107	8.5	97.6	97.0	0.6	75 - 125	30	
Zinc	BRL	0.31	24.0	29.4	20.2	94.2	103	8.9	98.5	97.9	0.6	75 - 125	30	
QA/QC Batch 306208 (mg/kg), QC Sample No: BJ08282 (BJ08282, BJ08284, BJ08289, BJ08291, BJ08293, BJ08294)														
Mercury - Soil	BRL	0.06	0.05	0.04	NC	103	106	2.9	115	110	4.4	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 306146 (mg/kg), QC Sample No: BJ08294 (BJ08284, BJ08289, BJ08291, BJ08294)														
ICP Metals - Soil														
Antimony	BRL	3.5	<3.5	<3.4	NC	75.7	87.4	14.3	87.6	84.2	4.0	75 - 125	30	
Arsenic	BRL	0.70	4.0	5.72	35.4	100	99.7	0.3	96.5	95.2	1.4	75 - 125	30	r
Barium	BRL	0.35	61.3	56.0	9.00	98.1	97.1	1.0	106	118	10.7	75 - 125	30	
Cadmium	BRL	0.35	0.55	0.46	NC	98.0	100	2.0	102	101	1.0	75 - 125	30	
Chromium	BRL	0.35	14.6	18.4	23.0	99.6	98.3	1.3	107	106	0.9	75 - 125	30	
Copper	0.51	0.35	109	46.2	80.9	94.2	94.3	0.1	71.5	>130	NC	75 - 125	30	m,r
Lead	BRL	0.35	139	134	3.70	105	111	5.6	98.1	106	7.7	75 - 125	30	
Nickel	BRL	0.35	17.8	18.3	2.80	101	100	1.0	106	103	2.9	75 - 125	30	
Selenium	BRL	1.4	<1.4	<1.4	NC	90.4	89.7	0.8	81.3	79.9	1.7	75 - 125	30	
Silver	BRL	0.35	<0.35	<0.34	NC	101	99.8	1.2	101	101	0.0	75 - 125	30	
Zinc	1.73	0.35	68.0	63.8	6.40	87.5	86.2	1.5	97.6	118	18.9	75 - 125	30	
QA/QC Batch 307421 (mg/L), QC Sample No: BJ09111 (BJ08284, BJ08289)														
ICP Metals - SPLP Extraction														
Lead	BRL	0.010	0.014	0.014	NC	96.0	94.4	1.7	95.1	95.3	0.2	75 - 125	20	
QA/QC Batch 307418 (mg/L), QC Sample No: BJ14156 (BJ08284)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	113	109	3.6	112	109	2.7	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.

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306079 (PH), QC Sample No: BJ08293 (BJ08293)													
pH - Soil			4.16	4.21	1.20	97.6						85 - 115	20

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 305843 (mg/Kg), QC Sample No: BJ07734 (BJ08282, BJ08293, BJ08297, BJ08298)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum HC	ND	50	67	71	5.8	69	64	7.5	60 - 120	30	
% n-Pentacosane	79	%	77	54	35.1	75	76	1.3	50 - 150	30	r
QA/QC Batch 305964 (mg/kg), QC Sample No: BJ07955 10X (BJ08282, BJ08284, BJ08289, BJ08291, BJ08293, BJ08294)											
Polychlorinated Biphenyls - Soil											
PCB-1016	ND	0.17	85	92	7.9	86	84	2.4	40 - 140	30	
PCB-1221	ND	0.17							40 - 140	30	
PCB-1232	ND	0.17							40 - 140	30	
PCB-1242	ND	0.17							40 - 140	30	
PCB-1248	ND	0.17							40 - 140	30	
PCB-1254	ND	0.17							40 - 140	30	
PCB-1260	ND	0.17	85	91	6.8	89	88	1.1	40 - 140	30	
PCB-1262	ND	0.17							40 - 140	30	
PCB-1268	ND	0.17							40 - 140	30	
% DCBP (Surrogate Rec)	104	%	95	103	8.1	101	98	3.0	30 - 150	30	
% TCMX (Surrogate Rec)	92	%	87	95	8.8	85	82	3.6	30 - 150	30	
QA/QC Batch 306050 (mg/Kg), QC Sample No: BJ08103 (BJ08284, BJ08289, BJ08291, BJ08294)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum HC	ND	50	74	78	5.3	82	81	1.2	60 - 120	30	
% n-Pentacosane	79	%	88	90	2.2	97	94	3.1	50 - 150	30	
QA/QC Batch 307102 (ug/kg), QC Sample No: BJ08291 (BJ08280 (50X) , BJ08281, BJ08282, BJ08284 (1X, 50X) , BJ08289 (1X, 50X) , BJ08291 (1X, 50X) , BJ08293 (1X, 50X) , BJ08294 (1X, 50X))											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	92	87	5.6	97	104	7.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	85	80	6.1	89	95	6.5	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	83	83	0.0	88	93	5.5	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	85	83	2.4	94	98	4.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	86	82	4.8	90	96	6.5	70 - 130	30	
1,1-Dichloroethene	ND	5.0	84	82	2.4	60	64	6.5	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	87	83	4.7	93	98	5.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	103	100	3.0	116	128	9.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	78	78	0.0	84	94	11.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	104	101	2.9	119	130	8.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	96	92	4.3	107	115	7.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	82	81	1.2	87	95	8.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	90	86	4.5	94	102	8.2	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	86	85	1.2	92	99	7.3	70 - 130	30	
1,2-Dichloroethane	ND	5.0	85	83	2.4	89	96	7.6	70 - 130	30	
1,2-Dichloropropane	ND	5.0	88	85	3.5	95	101	6.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	92	4.3	101	108	6.7	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	86	84	2.4	92	98	6.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,3-Dichloropropane	ND	5.0	90	86	4.5	96	102	6.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	86	84	2.4	92	98	6.3	70 - 130	30	
2,2-Dichloropropane	ND	5.0	88	83	5.8	89	94	5.5	70 - 130	30	
2-Chlorotoluene	ND	5.0	86	84	2.4	93	99	6.3	70 - 130	30	
2-Hexanone	ND	25	83	83	0.0	95	100	5.1	70 - 130	30	
2-Isopropyltoluene	ND	5.0	99	95	4.1	101	107	5.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	86	84	2.4	93	99	6.3	70 - 130	30	
4-Methyl-2-pentanone	ND	25	85	86	1.2	98	103	5.0	70 - 130	30	
Acetone	ND	10	74	76	2.7	59	62	5.0	70 - 130	30	m
Acrylonitrile	ND	5.0	84	83	1.2	93	98	5.2	70 - 130	30	
Benzene	ND	1.0	87	83	4.7	92	99	7.3	70 - 130	30	
Bromobenzene	ND	5.0	82	80	2.5	87	93	6.7	70 - 130	30	
Bromochloromethane	ND	5.0	89	83	7.0	90	100	10.5	70 - 130	30	
Bromodichloromethane	ND	5.0	91	89	2.2	93	99	6.3	70 - 130	30	
Bromoform	ND	5.0	90	88	2.2	94	102	8.2	70 - 130	30	
Bromomethane	ND	5.0	81	77	5.1	56	64	13.3	70 - 130	30	m
Carbon Disulfide	ND	5.0	94	88	6.6	66	71	7.3	70 - 130	30	m
Carbon tetrachloride	ND	5.0	87	82	5.9	88	94	6.6	70 - 130	30	
Chlorobenzene	ND	5.0	89	84	5.8	94	101	7.2	70 - 130	30	
Chloroethane	ND	5.0	72	70	2.8	28	29	3.5	70 - 130	30	m
Chloroform	ND	5.0	87	82	5.9	90	97	7.5	70 - 130	30	
Chloromethane	ND	5.0	71	68	4.3	82	85	3.6	70 - 130	30	l
cis-1,2-Dichloroethene	ND	5.0	86	86	0.0	91	97	6.4	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	94	90	4.3	96	103	7.0	70 - 130	30	
Dibromochloromethane	ND	3.0	96	92	4.3	96	102	6.1	70 - 130	30	
Dibromomethane	ND	5.0	86	85	1.2	92	98	6.3	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	75	71	5.5	75	77	2.6	70 - 130	30	
Ethylbenzene	ND	1.0	92	86	6.7	95	102	7.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0	94	90	4.3	102	110	7.5	70 - 130	30	
Isopropylbenzene	ND	1.0	85	82	3.6	91	97	6.4	70 - 130	30	
m&p-Xylene	ND	2.0	91	86	5.6	96	103	7.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	81	83	2.4	89	94	5.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	91	90	1.1	90	97	7.5	70 - 130	30	
Methylene chloride	ND	5.0	74	71	4.1	73	79	7.9	70 - 130	30	
Naphthalene	ND	5.0	100	99	1.0	111	122	9.4	70 - 130	30	
n-Butylbenzene	ND	1.0	96	92	4.3	106	114	7.3	70 - 130	30	
n-Propylbenzene	ND	1.0	81	78	3.8	90	96	6.5	70 - 130	30	
o-Xylene	ND	2.0	93	88	5.5	98	106	7.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	95	92	3.2	103	110	6.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	91	87	4.5	95	101	6.1	70 - 130	30	
Styrene	ND	5.0	94	90	4.3	100	108	7.7	70 - 130	30	
tert-Butylbenzene	ND	1.0	88	85	3.5	94	100	6.2	70 - 130	30	
Tetrachloroethene	ND	5.0	88	82	7.1	93	100	7.3	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	81	81	0.0	89	96	7.6	70 - 130	30	
Toluene	ND	1.0	87	84	3.5	94	99	5.2	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	87	82	5.9	86	91	5.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	94	91	3.2	96	102	6.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	91	92	1.1	94	98	4.2	70 - 130	30	
Trichloroethene	ND	5.0	87	84	3.5	92	98	6.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	80	75	6.5	21	22	4.7	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	85	79	7.3	61	65	6.3	70 - 130	30	m
Vinyl chloride	ND	5.0	83	80	3.7	89	92	3.3	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	101	2.0	100	100	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Bromofluorobenzene	92	%		100	99	1.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	99	%		104	100	3.9	97	98	1.0	70 - 130	30	
% Toluene-d8	97	%		99	98	1.0	98	98	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 307572 (ug/kg), QC Sample No: BJ08300 (BJ08300)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0		101	95	6.1	107	108	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0		98	97	1.0	105	107	1.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0		92	91	1.1	102	103	1.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0		92	92	0.0	106	109	2.8	70 - 130	30	
1,1-Dichloroethane	ND	5.0		96	93	3.2	104	105	1.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0		100	101	1.0	102	104	1.9	70 - 130	30	
1,1-Dichloropropene	ND	5.0		102	98	4.0	110	111	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0		96	91	5.3	107	109	1.9	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0		87	83	4.7	101	102	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0		99	93	6.3	108	111	2.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0		95	90	5.4	106	107	0.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0		92	95	3.2	110	119	7.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0		93	90	3.3	105	105	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0		95	89	6.5	103	105	1.9	70 - 130	30	
1,2-Dichloroethane	ND	5.0		92	90	2.2	103	105	1.9	70 - 130	30	
1,2-Dichloropropane	ND	5.0		96	92	4.3	105	107	1.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0		100	93	7.3	106	107	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0		97	91	6.4	106	107	0.9	70 - 130	30	
1,3-Dichloropropane	ND	5.0		92	90	2.2	103	105	1.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0		94	91	3.2	106	107	0.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0		103	100	3.0	104	106	1.9	70 - 130	30	
2-Chlorotoluene	ND	5.0		97	89	8.6	105	105	0.0	70 - 130	30	
2-Hexanone	ND	25		90	93	3.3	96	101	5.1	70 - 130	30	
2-Isopropyltoluene	ND	5.0		102	97	5.0	108	109	0.9	70 - 130	30	
4-Chlorotoluene	ND	5.0		97	89	8.6	105	105	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25		101	108	6.7	106	111	4.6	70 - 130	30	
Acetone	ND	10		81	75	7.7	75	73	2.7	70 - 130	30	
Acrylonitrile	ND	5.0		85	93	9.0	105	107	1.9	70 - 130	30	
Benzene	ND	1.0		99	96	3.1	106	109	2.8	70 - 130	30	
Bromobenzene	ND	5.0		94	90	4.3	103	103	0.0	70 - 130	30	
Bromochloromethane	ND	5.0		95	92	3.2	103	107	3.8	70 - 130	30	
Bromodichloromethane	ND	5.0		102	99	3.0	106	107	0.9	70 - 130	30	
Bromoform	ND	5.0		99	100	1.0	110	110	0.0	70 - 130	30	
Bromomethane	ND	5.0		103	91	12.4	68	64	6.1	70 - 130	30	m
Carbon Disulfide	ND	5.0		102	102	0.0	98	99	1.0	70 - 130	30	
Carbon tetrachloride	ND	5.0		102	100	2.0	106	107	0.9	70 - 130	30	
Chlorobenzene	ND	5.0		96	93	3.2	105	107	1.9	70 - 130	30	
Chloroethane	ND	5.0		101	97	4.0	27	27	0.0	70 - 130	30	m
Chloroform	ND	5.0		101	90	11.5	102	102	0.0	70 - 130	30	
Chloromethane	ND	5.0		86	85	1.2	108	104	3.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0		95	93	2.1	104	109	4.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0		105	99	5.9	109	112	2.7	70 - 130	30	
Dibromochloromethane	ND	3.0		103	100	3.0	107	109	1.9	70 - 130	30	
Dibromomethane	ND	5.0		94	93	1.1	106	109	2.8	70 - 130	30	
Dichlorodifluoromethane	ND	5.0		98	95	3.1	107	108	0.9	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Ethylbenzene	ND	1.0	102	96	6.1	107	107	0.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	107	101	5.8	113	112	0.9	70 - 130	30	
Isopropylbenzene	ND	1.0	100	96	4.1	108	109	0.9	70 - 130	30	
m&p-Xylene	ND	2.0	99	96	3.1	107	108	0.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	83	91	9.2	91	99	8.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	107	106	0.9	114	115	0.9	70 - 130	30	
Methylene chloride	ND	5.0	83	83	0.0	92	90	2.2	70 - 130	30	
Naphthalene	ND	5.0	92	92	0.0	108	112	3.6	70 - 130	30	
n-Butylbenzene	ND	1.0	101	96	5.1	110	110	0.0	70 - 130	30	
n-Propylbenzene	ND	1.0	96	90	6.5	106	109	2.8	70 - 130	30	
o-Xylene	ND	2.0	101	96	5.1	108	110	1.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	102	95	7.1	110	109	0.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	102	97	5.0	106	107	0.9	70 - 130	30	
Styrene	ND	5.0	100	96	4.1	111	112	0.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	96	5.1	107	107	0.0	70 - 130	30	
Tetrachloroethene	ND	5.0	105	102	2.9	112	116	3.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	78	87	10.9	100	102	2.0	70 - 130	30	
Toluene	ND	1.0	99	98	1.0	109	109	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	139	98	34.6	132	114	14.6	70 - 130	30	l,m,r
trans-1,3-Dichloropropene	ND	5.0	104	103	1.0	110	110	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	97	97	0.0	106	111	4.6	70 - 130	30	
Trichloroethene	ND	5.0	102	99	3.0	109	114	4.5	70 - 130	30	
Trichlorofluoromethane	ND	5.0	98	96	2.1	25	26	3.9	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	100	101	1.0	106	107	0.9	70 - 130	30	
Vinyl chloride	ND	5.0	100	98	2.0	110	113	2.7	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	97	100	3.0	102	100	2.0	70 - 130	30	
% Bromofluorobenzene	94	%	101	102	1.0	103	102	1.0	70 - 130	30	
% Dibromofluoromethane	100	%	98	102	4.0	98	106	7.8	70 - 130	30	
% Toluene-d8	100	%	100	103	3.0	100	101	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 306038 (ug/kg), QC Sample No: BJ08342 (BJ08282, BJ08293, BJ08297, BJ08298)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	89	93	4.4	96	91	5.3	30 - 130	30	
Acenaphthene	ND	230	86	91	5.6	90	92	2.2	30 - 130	30	
Acenaphthylene	ND	230	89	99	10.6	102	99	3.0	30 - 130	30	
Anthracene	ND	230	94	98	4.2	NC	NC	NC	30 - 130	30	
Benz(a)anthracene	ND	230	91	96	5.3	NC	NC	NC	30 - 130	30	
Benzo(a)pyrene	ND	230	92	101	9.3	NC	NC	NC	30 - 130	30	
Benzo(b)fluoranthene	ND	230	92	97	5.3	NC	NC	NC	30 - 130	30	
Benzo(ghi)perylene	ND	230	97	104	7.0	NC	NC	NC	30 - 130	30	
Benzo(k)fluoranthene	ND	230	88	100	12.8	NC	NC	NC	30 - 130	30	
Chrysene	ND	230	102	106	3.8	NC	NC	NC	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	91	103	12.4	111	114	2.7	30 - 130	30	
Fluoranthene	ND	230	96	106	9.9	NC	NC	NC	30 - 130	30	
Fluorene	ND	230	87	95	8.8	94	95	1.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	94	103	9.1	NC	NC	NC	30 - 130	30	
Naphthalene	ND	230	81	88	8.3	90	88	2.2	30 - 130	30	
Phenanthrene	ND	230	96	99	3.1	NC	NC	NC	30 - 130	30	
Pyrene	ND	230	96	105	9.0	NC	NC	NC	30 - 130	30	
% 2-Fluorobiphenyl	77	%	83	92	10.3	84	79	6.1	30 - 130	30	
% Nitrobenzene-d5	66	%	76	79	3.9	81	72	11.8	30 - 130	30	

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% Terphenyl-d14	83	%		94	102	8.2	93	95	2.1	30 - 130	30	

Comment:

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

QA/QC Batch 306043 (ug/kg), QC Sample No: BJ08351 (BJ08284, BJ08289, BJ08291, BJ08294)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230		76	74	2.7	61	63	3.2	30 - 130	30	
Acenaphthene	ND	230		87	86	1.2	79	78	1.3	30 - 130	30	
Acenaphthylene	ND	230		83	82	1.2	76	77	1.3	30 - 130	30	
Anthracene	ND	230		91	91	0.0	88	87	1.1	30 - 130	30	
Benz(a)anthracene	ND	230		94	93	1.1	82	85	3.6	30 - 130	30	
Benzo(a)pyrene	ND	230		92	91	1.1	72	70	2.8	30 - 130	30	
Benzo(b)fluoranthene	ND	230		89	88	1.1	66	66	0.0	30 - 130	30	
Benzo(ghi)perylene	ND	230		104	99	4.9	93	91	2.2	30 - 130	30	
Benzo(k)fluoranthene	ND	230		95	95	0.0	80	78	2.5	30 - 130	30	
Chrysene	ND	230		112	111	0.9	96	99	3.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	230		111	109	1.8	100	94	6.2	30 - 130	30	
Fluoranthene	ND	230		114	112	1.8	90	83	8.1	30 - 130	30	
Fluorene	ND	230		94	94	0.0	82	82	0.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230		104	103	1.0	92	90	2.2	30 - 130	30	
Naphthalene	ND	230		69	69	0.0	65	66	1.5	30 - 130	30	
Phenanthrene	ND	230		97	98	1.0	95	95	0.0	30 - 130	30	
Pyrene	ND	230		109	105	3.7	90	80	11.8	30 - 130	30	
% 2-Fluorobiphenyl	83	%		85	86	1.2	84	84	0.0	30 - 130	30	
% Nitrobenzene-d5	87	%		80	80	0.0	74	74	0.0	30 - 130	30	
% Terphenyl-d14	97	%		102	98	4.0	80	72	10.5	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 307116 (ug/kg), QC Sample No: BJ12620 (BJ08297, BJ08298)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0		85	86	1.2	105	104	1.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0		81	79	2.5	97	100	3.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0		78	80	2.5	94	96	2.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0		81	81	0.0	102	101	1.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0		80	79	1.3	99	99	0.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0		83	78	6.2	65	66	1.5	70 - 130	30	m
1,1-Dichloropropene	ND	5.0		81	79	2.5	106	104	1.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0		87	89	2.3	143	143	0.0	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0		73	74	1.4	88	92	4.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0		87	84	3.5	143	144	0.7	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0		88	85	3.5	118	120	1.7	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0		79	79	0.0	102	104	1.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0		82	84	2.4	102	103	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0		80	79	1.3	99	101	2.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0		80	81	1.2	98	98	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0		84	83	1.2	106	103	2.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0		89	86	3.4	113	113	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0		79	77	2.6	99	100	1.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0		83	84	1.2	105	103	1.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0		78	75	3.9	99	101	2.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0		80	79	1.3	100	101	1.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Chlorotoluene	ND	5.0	81	79	2.5	101	103	2.0	70 - 130	30	
2-Hexanone	ND	25	80	82	2.5	105	105	0.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	92	90	2.2	111	114	2.7	70 - 130	30	
4-Chlorotoluene	ND	5.0	80	77	3.8	101	102	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	82	84	2.4	108	106	1.9	70 - 130	30	
Acetone	ND	10	76	77	1.3	63	66	4.7	70 - 130	30	m
Acrylonitrile	ND	5.0	80	82	2.5	103	105	1.9	70 - 130	30	
Benzene	ND	1.0	82	82	0.0	104	102	1.9	70 - 130	30	
Bromobenzene	ND	5.0	77	76	1.3	94	95	1.1	70 - 130	30	
Bromochloromethane	ND	5.0	84	84	0.0	100	102	2.0	70 - 130	30	
Bromodichloromethane	ND	5.0	86	86	0.0	105	101	3.9	70 - 130	30	
Bromoform	ND	5.0	85	84	1.2	103	102	1.0	70 - 130	30	
Bromomethane	ND	5.0	81	72	11.8	59	69	15.6	70 - 130	30	m
Carbon Disulfide	ND	5.0	89	87	2.3	76	77	1.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	80	79	1.3	99	100	1.0	70 - 130	30	
Chlorobenzene	ND	5.0	82	81	1.2	105	103	1.9	70 - 130	30	
Chloroethane	ND	5.0	77	72	6.7	29	31	6.7	70 - 130	30	m
Chloroform	ND	5.0	81	80	1.2	99	101	2.0	70 - 130	30	
Chloromethane	ND	5.0	67	66	1.5	94	94	0.0	70 - 130	30	l
cis-1,2-Dichloroethene	ND	5.0	86	82	4.8	100	102	2.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	86	88	2.3	107	104	2.8	70 - 130	30	
Dibromochloromethane	ND	3.0	89	90	1.1	102	104	1.9	70 - 130	30	
Dibromomethane	ND	5.0	82	82	0.0	101	99	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	70	63	10.5	91	92	1.1	70 - 130	30	l
Ethylbenzene	ND	1.0	85	83	2.4	104	104	0.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	86	79	8.5	114	116	1.7	70 - 130	30	
Isopropylbenzene	ND	1.0	81	78	3.8	100	102	2.0	70 - 130	30	
m&p-Xylene	ND	2.0	84	82	2.4	105	105	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	70	73	4.2	103	107	3.8	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	89	89	0.0	93	96	3.2	70 - 130	30	
Methylene chloride	ND	5.0	65	64	1.6	80	83	3.7	70 - 130	30	l
Naphthalene	ND	5.0	96	99	3.1	138	140	1.4	70 - 130	30	m
n-Butylbenzene	ND	1.0	86	79	8.5	119	120	0.8	70 - 130	30	
n-Propylbenzene	ND	1.0	75	72	4.1	100	101	1.0	70 - 130	30	
o-Xylene	ND	2.0	88	85	3.5	110	107	2.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	88	84	4.7	117	116	0.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	86	83	3.6	104	107	2.8	70 - 130	30	
Styrene	ND	5.0	88	86	2.3	112	109	2.7	70 - 130	30	
tert-Butylbenzene	ND	1.0	84	82	2.4	104	106	1.9	70 - 130	30	
Tetrachloroethene	ND	5.0	81	78	3.8	105	105	0.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	78	79	1.3	98	99	1.0	70 - 130	30	
Toluene	ND	1.0	83	81	2.4	104	103	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	84	84	0.0	92	94	2.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	86	89	3.4	106	105	0.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	84	86	2.4	102	105	2.9	70 - 130	30	
Trichloroethene	ND	5.0	81	81	0.0	104	102	1.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	74	71	4.1	23	23	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	80	72	10.5	66	69	4.4	70 - 130	30	m
Vinyl chloride	ND	5.0	80	77	3.8	101	104	2.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	101	100	1.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	94	%	100	100	0.0	100	99	1.0	70 - 130	30	
% Dibromofluoromethane	99	%	100	102	2.0	99	101	2.0	70 - 130	30	
% Toluene-d8	98	%	99	99	0.0	101	98	3.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ08280

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 307304 (mg/Kg), QC Sample No: BJ13977 (BJ08285, BJ08300)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	50	73	69	5.6	67	73	8.6	60 - 120	30
% n-Pentacosane	74	%	80	75	6.5	76	80	5.1	50 - 150	30
QA/QC Batch 307317 (ug/kg), QC Sample No: BJ14266 (BJ08300)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	93	90	3.3	93	89	4.4	30 - 130	30
Acenaphthene	ND	230	91	88	3.4	93	86	7.8	30 - 130	30
Acenaphthylene	ND	230	91	88	3.4	92	86	6.7	30 - 130	30
Anthracene	ND	230	97	96	1.0	97	95	2.1	30 - 130	30
Benz(a)anthracene	ND	230	101	98	3.0	98	94	4.2	30 - 130	30
Benzo(a)pyrene	ND	230	101	100	1.0	95	90	5.4	30 - 130	30
Benzo(b)fluoranthene	ND	230	102	97	5.0	99	87	12.9	30 - 130	30
Benzo(ghi)perylene	ND	230	103	107	3.8	73	59	21.2	30 - 130	30
Benzo(k)fluoranthene	ND	230	96	96	0.0	93	86	7.8	30 - 130	30
Chrysene	ND	230	100	97	3.0	93	92	1.1	30 - 130	30
Dibenz(a,h)anthracene	ND	230	105	108	2.8	85	76	11.2	30 - 130	30
Fluoranthene	ND	230	83	81	2.4	83	68	19.9	30 - 130	30
Fluorene	ND	230	99	96	3.1	99	100	1.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	105	109	3.7	82	72	13.0	30 - 130	30
Naphthalene	ND	230	83	81	2.4	87	83	4.7	30 - 130	30
Phenanthrene	ND	230	98	96	2.1	95	117	20.8	30 - 130	30
Pyrene	ND	230	86	84	2.4	78	64	19.7	30 - 130	30
% 2-Fluorobiphenyl	46	%	88	83	5.8	86	76	12.3	30 - 130	30
% Nitrobenzene-d5	42	%	89	85	4.6	88	82	7.1	30 - 130	30
% Terphenyl-d14	52	%	82	76	7.6	59	45	26.9	30 - 130	30
Comment:										
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)										

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

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

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

Phyllis Shiller, Laboratory Director
May 13, 2015

Sample Criteria Exceedences Report

GBJ08280 - FO-PCB

Criteria: CT: GAM, RC
State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ08284	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.152	0.010	0.015	0.015	mg/L
BJ08289	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1200	260	1000	1000	ug/Kg
BJ08289	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1200	260	1000	1000	ug/Kg
BJ08289	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1300	260	1000	1000	ug/Kg
BJ08289	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	260	1000	1000	ug/Kg
BJ08289	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	260	1000	1000	ug/Kg
BJ08289	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	260	1000	1000	ug/Kg
BJ08289	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.048	0.010	0.015	0.015	mg/L
BJ08294	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5200	260	1000	1000	ug/Kg
BJ08294	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5500	1300	4000	4000	ug/Kg
BJ08294	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	9700	1300	5600	5600	ug/Kg
BJ08294	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1600	260	1000	1000	ug/Kg
BJ08294	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7000	1300	1000	1000	ug/Kg
BJ08294	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5000	260	1000	1000	ug/Kg
BJ08294	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8800	1300	4000	4000	ug/Kg
BJ08294	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7000	1300	1000	1000	ug/Kg
BJ08294	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	5000	260	1000	1000	ug/Kg
BJ08294	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	5200	260	1000	1000	ug/Kg
BJ08297	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2100	310	1000	1000	ug/Kg
BJ08297	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2200	310	1000	1000	ug/Kg
BJ08297	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4500	310	4000	4000	ug/Kg
BJ08297	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2300	310	1000	1000	ug/Kg
BJ08297	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	310	1000	1000	ug/Kg
BJ08297	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2200	310	1000	1000	ug/Kg
BJ08297	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2300	310	1000	1000	ug/Kg
BJ08297	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1300	130	500	500	mg/Kg
BJ08297	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1300	130	500	500	mg/Kg
BJ08298	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4200	320	4000	4000	ug/Kg
BJ08298	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1100	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3500	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2900	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2900	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2900	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3500	320	1000	1000	ug/Kg
BJ08298	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2900	320	1000	1000	ug/Kg
BJ08298	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1100	68	500	500	mg/Kg
BJ08298	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1100	68	500	500	mg/Kg

Sample Criteria Exceedences Report

GBJ08280 - FO-PCB

Criteria: CT: GAM, RC
State: CT

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

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ08280, BJ08281, BJ08282, BJ08283, BJ08284, BJ08285, BJ08286, BJ08287, BJ08288, BJ08289, BJ08290, BJ08291, BJ08292, BJ08293, BJ08294, BJ08295, BJ08296, BJ08297, BJ08298, BJ08299, BJ08300

Sampling Date(s): 4/27/2015

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, 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, May 13, 2015

Printed Name: Ethan Lee

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ08280

BJ08282, BJ08291, BJ08294 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ08284, BJ08289 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Antimony, Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ08282, BJ08284, BJ08289, BJ08291, BJ08294, BJ08297, BJ08298 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

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

QC Batch 305843 (Samples: BJ08282, BJ08293, BJ08297, BJ08298): -----

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

Instrument: Au-fid1 04/28/15-2 (BJ08297, BJ08298)

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: 4/28/2015

Instrument: Au-fid1 04/28/15-3 (BJ08284, BJ08289, BJ08291)

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: 4/28/2015

Instrument: Au-fid84 04/29/15-1 (BJ08294, BJ08297)

Initial Calibration (FID84 - ETPH_413) - 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

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ08280

Printed Name Jeff Bucko
Position: Chemist
Date: 4/29/2015

Instrument: Au-fid84 04/30/15-1 (BJ08294)

Initial Calibration (FID84 - ETPH_413) - 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: 4/30/2015

Instrument: Au-xl2 04/27/15-2 (BJ08282, BJ08293)

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: 4/27/2015

Instrument: Au-xl2 05/01/15-1 (BJ08291)

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: C18

Printed Name Jeff Bucko
Position: Chemist
Date: 5/1/2015

Instrument: Au-xl2 05/09/15-1 (BJ08300)

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

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RCP Certification Report

May 13, 2015

SDG I.D.: GBJ08280

Printed Name Jeff Bucko
Position: Chemist
Date: 5/9/2015

Instrument: Au-xl2 05/09/15-3 (BJ08285)

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: 5/9/2015

QC (Batch Specific)

---------- Sample No: BJ07734, QA/QC Batch: 305843 ----------

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(35.1%)

---------- Sample No: BJ08103, QA/QC Batch: 306050 ----------

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: BJ13977, QA/QC Batch: 307304 ----------

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 04/29/15-1 (BJ08282, BJ08284, BJ08289, BJ08291, BJ08293, BJ08294)

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SDG I.D.: GBJ08280

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: 4/29/2015

Instrument: Merlin 05/11/15-1 (BJ08284)

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: 5/11/2015

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SDG I.D.: GBJ08280

QC (Site Specific)

---------- Sample No: BJ08282, QA/QC Batch: 306208 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ14156, QA/QC Batch: 307418 ----------

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? No.

QC Batch 306146 (Samples: BJ08284, BJ08289, BJ08291, BJ08294): -----

The MS recovery is below the method criteria and the MSD recovery is above method criteria for one or more analytes. This is due to sample homogeneity issues. A bias can not be ruled out. (Copper)

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

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. (Soil-Copper(BJ08284, BJ08289, BJ08291, BJ08294), Zinc(BJ08284, BJ08289, BJ08291, BJ08294))

Instrument: Arcos 04/28/15-1 (BJ08282, BJ08293)

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: 4/28/2015

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SDG I.D.: GBJ08280

Instrument: Arcos 04/29/15-1 (BJ08284, BJ08289, BJ08291, BJ08294)

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: 4/29/2015

Instrument: Arcos 04/30/15-1 (BJ08284, BJ08289, BJ08294)

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: 4/30/2015

Instrument: Arcos 05/11/15-1 (BJ08284, BJ08289)

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: 5/11/2015

Instrument: Arcos 05/12/15-1 (BJ08284, BJ08289)

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: 5/12/2015

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SDG I.D.: GBJ08280

QC (Site Specific)

---------- Sample No: BJ08294, QA/QC Batch: 306146 ----------

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: Copper(71.5%)

All MSD recoveries were within 75 - 125 with the following exceptions: Copper(>130%)

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: BJ08201, QA/QC Batch: 306033 ----------

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: BJ09111, QA/QC Batch: 307421 ----------

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: Chem05 04/28/15-3 (BJ08284, BJ08289, BJ08291, BJ08294)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0428_28-BN_0415):
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.

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May 13, 2015

SDG I.D.: GBJ08280

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: 4/28/2015

Instrument: Chem05 04/29/15-1 (BJ08294)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0429_02-BN_0415):
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: 4/29/2015

Instrument: Chem06 05/08/15-1 (BJ08300)

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_0505):
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 (CHEM06/0508_04A-BN_0505):
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: 5/8/2015

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SDG I.D.: GBJ08280

QC (Batch Specific)

---------- Sample No: BJ08342, QA/QC Batch: 306038 ----------

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: BJ08351, QA/QC Batch: 306043 ----------

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: BJ14266, QA/QC Batch: 307317 ----------

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 04/30/15-1 (BJ08294)

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: noneThe initial calibration (PC318AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC318BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/30/2015

Instrument: Au-ecd29 04/29/15-1 (BJ08294)

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ08280

The initial calibration (PC223AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC223BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/29/2015

Instrument: Au-ecd5 04/28/15-1 (BJ08282, BJ08293)

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: noneThe initial calibration (PC423AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC423BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/28/2015

Instrument: Au-ecd5 04/29/15-1 (BJ08294)

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: noneThe initial calibration (PC423AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC423BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/29/2015

Instrument: Au-ecd6 04/29/15-1 (BJ08284, BJ08289, BJ08291)

8082 Narration:

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May 13, 2015

SDG I.D.: GBJ08280

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: noneThe initial calibration (PC420AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC420BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/29/2015

QC (Batch Specific)

---------- Sample No: BJ07955, QA/QC Batch: 305964 ----------

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: Chem12 04/27/15-2 (BJ08282, BJ08293, BJ08297, BJ08298)

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_0423):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (27%), Benzidine (41%), Benzoic Acid (23%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0427_26-sv_0423):
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 (.085)[0.1], Hexachlorobenzene (.094)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/27/2015

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RCP Certification Report

May 13, 2015

SDG I.D.: GBJ08280

QC (Batch Specific)

---------- Sample No: BJ08342, QA/QC Batch: 306038 ----------

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: BJ08351, QA/QC Batch: 306043 ----------

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: BJ14266, QA/QC Batch: 307317 ----------

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 307102 (Samples: BJ08280, BJ08281, BJ08282, BJ08284, BJ08289, BJ08291, BJ08293, BJ08294): -----

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. (Chloromethane)

QC Batch 307116 (Samples: BJ08297, BJ08298): -----

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (Chloromethane, Methylene chloride)

The LCS and/or the LCSD recovery is below the method criteria. All of the other QC is acceptable, therefore no significant bias is suspected. (Dichlorodifluoromethane)

Instrument: Chem03 05/06/15-1 (BJ08280, BJ08281, BJ08282, BJ08284, BJ08289, BJ08291, BJ08293, BJ08294, BJ08297, BJ08298)

Initial Calibration Verification (CHEM03/VT-L0505):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (24%), Naphthalene (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

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SDG I.D.: GBJ08280

Continuing Calibration Verification (CHEM03/0506L02-VT-L0505):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 5/6/2015

Instrument: Chem03 05/06/15-2 (BJ08297, BJ08298)

Initial Calibration Verification (CHEM03/VT-L0505):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (24%), Naphthalene (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0506L35-VT-L0505):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 5/6/2015

Instrument: Chem14 05/11/15-1 (BJ08300)

Initial Calibration Verification (CHEM14/VT-0508):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM14/0511_02-VT-0508):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Trans-1,2-dichloroethene (-48%)[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 Jane Li
Position: Chemist
Date: 5/11/2015

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May 13, 2015

SDG I.D.: GBJ08280

QC (Batch Specific)

---------- Sample No: BJ08291, QA/QC Batch: 307102 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloromethane(68%)

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

---------- Sample No: BJ08300, QA/QC Batch: 307572 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,2-Dichloroethene(139%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

All LCS/LCSD RPDs were less than 30% with the following exceptions: trans-1,2-Dichloroethene(34.6%)

---------- Sample No: BJ12620, QA/QC Batch: 307116 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Chloromethane(67%), Methylene chloride(65%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Chloromethane(66%), Dichlorodifluoromethane(63%), Methylene chloride(64%)

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

Temperature Narration

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

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☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

4°C WIC ID

CHAIN-OF-CUSTODY RECORD 32789

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME: Anocoil
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20014S4.P20
LABORATORY: Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO: same
P.O. NO.: Quote # FO 040315 BA
Sampler's Signature: _____ Date: 4/27/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH	PAHs	PCBs (Soxhlet)	RCRA 8 metals	Antimony	Cu, Ni, Zn	Soil VOA Vial, ☐ methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
15					12S11S0427-15	X	4/27/15	0835	X								1				08280						
16					-16	X		0836	X									2			08281						Hold
17					-17	S		0905	X	X	X	X	X				1	2	1		08282						additional
18					-18			0930													08283						soil volumes
19					-19			0940													08284						for additional
20					-20			0950													08285						analyses
21					-21			1030													08286						
22					-22			1040													08287						
23					-23			1050													08288						
24					-24			1100													08289						

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____	TFCunell	4/27/15	1044
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
___ Duplicates 2 Blanks (Item Nos: 15, 16)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC
Additional Comments:
See quote

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

4oC WIC IP

CHAIN-OF-CUSTODY RECORD 32790

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Anocoil
PROJECT LOCATION: Rockville CT
PROJECT NUMBER: 20014454.P20
LABORATORY: Phoenix

REPORT TO: Kevin Vanderveer (F+O)'
INVOICE TO: same
P.O. NO.: Quote # FO 040315 BA
Sampler's Signature: _____ Date: 4/27/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs 8260	CT ETPH	PAHs	PCBs (Soxhlet)	TCLP 8 metals	Antimony	Cu, Ni, Zn	pH	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ HCl	Plastic - As is, ☐ 250 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
25		125150427-25	S	4-27-15	1200								1	2	1			08290						
26		-26			1210													08291						Hold
27		-27			1220													08292						additional
28		-28			1255	X	X	X	X	X		X	X					08293						soil vols.
29		-29			1310													08294						for
30		-30			1320													08295						additional
31		-31			1340													08296						analysis
32		-32			1350	X	X	X										08297						
33		-33			1355	X	X	X										08298						
34		-34			1400													08299						
35		125150427-35			1500								1	2	1			08300						

Transfer Number	Relinquished By	Accepted By	Date	Time
1			4/27/15	10:44
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC
Additional Comments:
See quote. Duplicate params: VOCs, ETPH, PAHs

GBJ 08290

Shannon - Phoenixlabs

From: Bobbi - Phoenixlabs [bobbi@phoenixlabs.com]
Sent: Tuesday, April 28, 2015 10:16 AM
To: shannon@phoenixlabs.com
Subject: Anocoil - Analysis Changes on COCs 32789 and 32790

Can you please make changes and attach to chain, thanks

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Kevin Vanderveer [mailto:KVanderveer@fando.com]
Sent: Tuesday, April 28, 2015 7:54 AM
To: bobbi@phoenixlabs.com
Subject: Anocoil - Analysis Changes on COCs 32789 and 32790

Bobbi,

Some samples would have been dropped off last night. Could you have the following changes made to the specified analyses associated with F&O sample numbers beginning with 1251150427-:

- -17: add copper, nickel, and zinc
- -19: VOCs, ETPH, PAHs, PCBs (Soxhlet), RCRA 8 metals, antimony, copper, nickel, and zinc
- -24: VOCs, ETPH, PAHs, PCBs (Soxhlet), RCRA 8 metals, antimony, copper, nickel, and zinc
- -26: VOCs, ETPH, PAHs, PCBs (Soxhlet), RCRA 8 metals, copper, nickel, and zinc
- -28: Hold
- -29: VOCs, ETPH, PAHs, PCBs (Soxhlet), RCRA 8 metals, copper, nickel, and zinc

Thank you,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Thursday, May 07, 2015 2:22 PM
To: Bobbi - Phoenixlabs
Subject: RE: BJ08293 - Run for pH

Bobbi,

Can you go ahead and report all the data you originally ran. It's in the EDD sent to Paula, so it only needs to be added to the lab report.

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

From: Bobbi - Phoenixlabs [mailto:bobbi@phoenixlabs.com]
Sent: Thursday, April 30, 2015 10:54 AM
To: Kevin Vanderveer
Subject: RE: BJ08293 - Run for pH

Ok thank you. It is 4.16

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Kevin Vanderveer [mailto:KVanderveer@fando.com]
Sent: Thursday, April 30, 2015 10:49 AM
To: Bobbi - Phoenixlabs
Subject: RE: BJ08293 - Run for pH

Go ahead and give me just a verbal on the pH. Once we get other data, I'll make a decision on the rest of the analytical.

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

From: Bobbi - Phoenixlabs [mailto:bobbi@phoenixlabs.com]
Sent: Thursday, April 30, 2015 10:47 AM

To: Kevin Vanderveer
Subject: RE: BJ08293 - Run for pH

Kevin
Looking at this sample, we actually had already run everything it looks like. We put the sample on hold per your request. Is there a chance that you might be adding on everything so I don't have to delete all the results and then put them back on again? Could I just give you a verbal on the ph so I don't have to delete all the codes?

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Kevin Vanderveer [mailto:KVanderveer@fando.com]
Sent: Thursday, April 30, 2015 9:42 AM
To: bobbi@phoenixlabs.com
Subject: RE: BJ08293 - Run for pH

This is the Anocoil project.

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

From: Kevin Vanderveer
Sent: Thursday, April 30, 2015 9:41 AM
To: bobbi@phoenixlabs.com
Subject: BJ08293 - Run for pH

Bobbi,

Would you run sample BJ08293 for pH? I had previously had it put on hold.

Thank you,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 13, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ09102 - BJ09114

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED DMS
By pbibeau at 11:09 am, May 18, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 06, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ09102 - BJ09114

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 7:22 am, May 07, 2015

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 05, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ09102 - BJ09114

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

REVIEWED
By pbibeau at 7:22 am, May 07, 2015
DMS

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

NY # 11301

SDG Comments

May 06, 2015

SDG I.D.: GBJ09102

Version 2: Corrections were made to 8270 QC section and to the RCP narrative.

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	8:15
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09102

Project ID: ANOCOIL
Client ID: 1251150428-36

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/28/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-36

Trip Blank - high

Phoenix I.D.: BJ09102

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/01/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/01/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	05/01/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	05/01/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/01/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/01/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	05/01/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150428-36

Trip Blank - high

Phoenix I.D.: BJ09102

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	90		%	50	05/01/15	JLI	70 - 130 %
% Toluene-d8	95		%	50	05/01/15	JLI	70 - 130 %

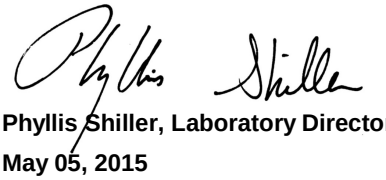
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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

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

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



Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	8:16
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09103

Project ID: ANOCOIL
Client ID: 1251150428-37

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/28/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-37

Trip Blank - low

Phoenix I.D.: BJ09103

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/01/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150428-37

Trip Blank - low

Phoenix I.D.: BJ09103

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	95		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/01/15	JLI	70 - 130 %

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

Comments:

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

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

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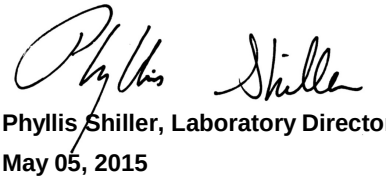

Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	8:40
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09104

Project ID: ANOCOIL
Client ID: 1251150428-38

SB-14A (5-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	3.8	0.8	mg/Kg	1	04/30/15	LK	SW6010C
Barium	80.1	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	32.2	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Copper	9.56	0.38	mg/kg	1	04/30/15	LK	SW6010C
Mercury	0.28	0.03	mg/Kg	1	04/29/15	RS	SW7471B
Nickel	4.21	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Lead	270	3.8	mg/Kg	10	05/01/15	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Lead	0.218	0.010	mg/L	1	05/12/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A
Zinc	15.1	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	84		%		04/28/15	I	SW846-%Solid
pH - Soil	7.37	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A
Mercury Digestion	Completed				04/29/15	I/I	SW7471B
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	290	59	mg/Kg	1	04/30/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	89		%	1	04/30/15	JRB	50 - 150 %

Project ID: ANOCOIL
Client ID: 1251150428-38

SB-14A (5-8')

Phoenix I.D.: BJ09104

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1232	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	67		%	10	04/29/15	KCA	30 - 150 %
% TCMX	79		%	10	04/29/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbon Disulfide	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	78		%	1	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	93		%	1	05/01/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthylene	940	280	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	830	280	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	3200	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	2600	280	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-38 SB-14A (5-8')

Phoenix I.D.: BJ09104

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	2800	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	870	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	890	280	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	3600	280	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	470	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	4000	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	970	280	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	480	280	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	2100	280	ug/Kg	1	04/29/15	DD	SW8270D
Pyrene	5800	280	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	80		%	1	04/29/15	DD	30 - 130 %
% Terphenyl-d14	85		%	1	04/29/15	DD	30 - 130 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

TPH Comment:
**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.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	9:10
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09105

Project ID: ANOCOIL
Client ID: 1251150428-39 MW-04 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	2170	5.6	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	79		%		04/28/15	I	SW846-%Solid
pH - Soil	7.43	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	9:20
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09106

Project ID: ANOCOIL
Client ID: 1251150428-40

MW-04 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Aluminum	4190	58	mg/Kg	10	04/30/15	LK	SW6010C
Arsenic	16.9	0.8	mg/Kg	1	04/30/15	LK	SW6010C
Barium	85.7	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	0.48	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	53.2	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Copper	75.3	0.39	mg/kg	1	04/30/15	LK	SW6010C
Mercury	0.46	0.03	mg/Kg	1	04/29/15	RS	SW7471B
Nickel	12.2	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Lead	187	3.9	mg/Kg	10	04/30/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Arsenic	0.008	0.004	mg/L	1	05/07/15	LK	SW6010C
SPLP Chromium	0.016	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Lead	0.041	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/07/15	I/I	SW3005A
Zinc	41.9	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	82		%		04/28/15	I	SW846-%Solid
pH - Soil	6.12	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A
Mercury Digestion	Completed				04/29/15	I/I	SW7471B
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C
SPLP Extraction for Metals	Completed				05/06/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1300	300	mg/Kg	5	04/30/15	JRB	CTETPH 8015D

Project ID: ANOCOIL
Client ID: 1251150428-40

MW-04 (5-7')

Phoenix I.D.: BJ09106

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	**		mg/Kg	5	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	5	04/30/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1232	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.4	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	82		%	10	04/29/15	KCA	30 - 150 %
% TCMX	73		%	10	04/29/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.5	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
2-Hexanone	ND	38	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	38	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	200	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
Bromochloromethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-40

MW-04 (5-7')

Phoenix I.D.: BJ09106

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromodichloromethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	4.5	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
Isopropylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
m&p-Xylene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	45	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
n-Butylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
n-Propylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
o-Xylene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
Styrene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	400	ug/Kg	50	05/01/15	JLI	SW8260
Tetrachloroethene	8.1	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	810	ug/Kg	50	05/01/15	JLI	SW8260
Trichloroethene	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	7.6	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	115		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	84		%	1	05/01/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	800	280	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-40

MW-04 (5-7')

Phoenix I.D.: BJ09106

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Anthracene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	1300	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	1400	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	1400	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	1400	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	710	280	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	1400	280	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	1300	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	750	280	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	520	280	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	760	280	ug/Kg	1	04/29/15	DD	SW8270D
Pyrene	1300	280	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	69		%	1	04/29/15	DD	30 - 130 %
% Terphenyl-d14	62		%	1	04/29/15	DD	30 - 130 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	9:30
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09107

Project ID: ANOCOIL
Client ID: 1251150428-41 MW-04 (8-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	45.6	0.9	mg/Kg	1	04/30/15	LK	SW6010C
Barium	268	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	0.64	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	838	4.5	mg/Kg	10	05/01/15	EK	SW6010C
Copper	44.5	0.45	mg/kg	1	04/30/15	LK	SW6010C
Mercury	0.05	0.04	mg/Kg	1	04/30/15	RS	SW7471B
Nickel	15.5	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Lead	77.7	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Arsenic	0.018	0.004	mg/L	1	05/07/15	LK	SW6010C
SPLP Barium	0.042	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Chromium	0.123	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Lead	0.020	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/07/15	I/I	SW3005A
Zinc	37.3	0.45	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	72		%		04/28/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A
Mercury Digestion	Completed				04/30/15	I/I	SW7471B
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C
SPLP Extraction for Metals	Completed				05/06/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1000	340	mg/Kg	5	04/29/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	04/29/15	JRB	CTETPH 8015D

Project ID: ANOCOIL
Client ID: 1251150428-41

MW-04 (8-9')

Phoenix I.D.: BJ09107

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% n-Pentacosane	83		%	5	04/29/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1232	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.46	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	83		%	10	04/29/15	KCA	30 - 150 %
% TCMX	44		%	10	04/29/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.2	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
2-Hexanone	ND	35	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	35	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	42	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
Bromochloromethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-41

MW-04 (8-9')

Phoenix I.D.: BJ09107

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromoform	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	4.2	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
Isopropylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
m&p-Xylene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	42	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	14	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
n-Butylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
n-Propylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
o-Xylene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
Styrene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	440	ug/Kg	50	05/01/15	JLI	SW8260
Tetrachloroethene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	14	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	880	ug/Kg	50	05/01/15	JLI	SW8260
Trichloroethene	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	6.9	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	50	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	90		%	1	05/01/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	320	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	390	320	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthylene	490	320	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	1200	320	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-41

MW-04 (8-9')

Phoenix I.D.: BJ09107

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	1500	320	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	980	320	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	910	320	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	540	320	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	380	320	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	2200	320	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	320	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	2000	320	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	530	320	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	510	320	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	ND	320	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	9200	1600	ug/Kg	5	04/29/15	DD	SW8270D
Pyrene	2800	320	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	54		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	04/29/15	DD	30 - 130 %
% Terphenyl-d14	46		%	1	04/29/15	DD	30 - 130 %

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

Comments:

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

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

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

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

May 13, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	10:10
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09108

Project ID: ANOCOIL
Client ID: 1251150428-42 MW-05 (1-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	1.3	0.7	mg/Kg	1	04/30/15	LK	SW6010C
Barium	72.3	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	10.8	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Copper	19.8	0.36	mg/kg	1	04/30/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	04/30/15	RS	SW7471B
Nickel	5.45	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Lead	2.13	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	04/30/15	LK	SW6010C
Zinc	29.8	0.36	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	86		%		04/28/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/28/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A
Mercury Digestion	Completed				04/30/15	I/I	SW7471B
Extraction for PCB	Completed				04/28/15	PP/W	SW3540C
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	56	mg/Kg	1	04/29/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	04/29/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1221	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A

Project ID: ANOCOIL
Client ID: 1251150428-42

MW-05 (1-5')

Phoenix I.D.: BJ09108

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1242	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1248	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1254	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1260	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1262	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
PCB-1268	ND	0.38	mg/kg	10	04/29/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	91		%	10	04/29/15	KCA	30 - 150 %
% TCMX	79		%	10	04/29/15	KCA	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.4	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Hexanone	ND	20	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	20	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	24	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromochloromethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-42 MW-05 (1-5')

Phoenix I.D.: BJ09108

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	2.4	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Isopropylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
m&p-Xylene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	24	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.0	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Butylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
n-Propylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
o-Xylene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Styrene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrachloroethene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.0	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichloroethene	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	4.0	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	95		%	1	05/01/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-42 MW-05 (1-5')

Phoenix I.D.: BJ09108

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	04/29/15	DD	30 - 130 %
% Terphenyl-d14	104		%	1	04/29/15	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.
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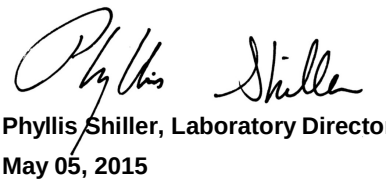

Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	11:30
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09109

Project ID: ANOCOIL
Client ID: 1251150428-43 SB-19 (2.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	6170	52	mg/Kg	10	04/30/15	LK	SW6010C
Percent Solid	92		%		04/28/15	I	SW846-%Solid
pH - Soil	9.11	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	11:45
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09110

Project ID: ANOCOIL
Client ID: 1251150428-44 SB-20 (0.25-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		04/28/15	I	SW846-%Solid
pH - Soil	6.33	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	13:15
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09111

Project ID: ANOCOIL
Client ID: 1251150428-45 SB-21 (0.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.39	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
Arsenic	2.8	0.8	mg/Kg	1	04/30/15	LK	SW6010C	
Barium	115	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
Cadmium	< 0.39	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
Chromium	50.2	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
Copper	145	3.9	mg/kg	10	05/01/15	EK	SW6010C	
Mercury	0.05	0.03	mg/Kg	1	04/30/15	RS	SW7471B	
Nickel	20.5	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
Lead	46.1	0.39	mg/Kg	1	04/30/15	LK	SW6010C	
QC for Mercury	Completed				04/30/15			
QC for ICP	Completed				05/11/15		SW6010C	
Antimony	< 3.9	3.9	mg/Kg	1	04/30/15	LK	SW6010C	
Selenium	< 1.5	1.5	mg/Kg	1	04/30/15	LK	SW6010C	
SPLP Chromium	< 0.010	0.010	mg/L	1	05/12/15	LK	SW6010C	
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A	
Zinc	52.4	0.39	mg/Kg	1	04/30/15	LK	SW6010C	B
Percent Solid	85		%		04/28/15	I	SW846-%Solid	
Soil Extraction for SVOA	Completed				04/28/15	JJ/VH	SW3545A	
Mercury Digestion MS/MSD	Completed				04/30/15		SW7471B	
Mercury Digestion	Completed				04/30/15	I/I	SW7471B	
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312	
Total Metals Digest MS/MSD	Completed				04/30/15			
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B	
Field Extraction	Completed				04/28/15		SW5035A	
Volatiles								
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260	
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260	

Project ID: ANOCOIL
Client ID: 1251150428-45

SB-21 (0.5-2.5')

Phoenix I.D.: BJ09111

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	29	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
m&p-Xylene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.5	ug/Kg	1	05/01/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.5	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.5	ug/Kg	1	05/01/15	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/01/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,4-Dinitrophenol	ND	620	ug/Kg	1	04/28/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
2-Nitroaniline	ND	620	ug/Kg	1	04/28/15	DD	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
3-Nitroaniline	ND	620	ug/Kg	1	04/28/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-45

SB-21 (0.5-2.5')

Phoenix I.D.: BJ09111

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Bromophenyl phenyl ether	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
4-Nitroaniline	ND	620	ug/Kg	1	04/28/15	DD	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Acetophenone	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	04/28/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzidine	ND	460	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	04/28/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Carbazole	ND	580	ug/Kg	1	04/28/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Di-n-butylphthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Isophorone	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
N-Nitrosodimethylamine	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
Pentachloronitrobenzene	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
Pentachlorophenol	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Phenol	ND	270	ug/Kg	1	04/28/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	04/28/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-45

SB-21 (0.5-2.5')

Phoenix I.D.: BJ09111

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pyridine	ND	390	ug/Kg	1	04/28/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	04/28/15	DD	30 - 130 %
% 2-Fluorobiphenyl	87		%	1	04/28/15	DD	30 - 130 %
% 2-Fluorophenol	80		%	1	04/28/15	DD	30 - 130 %
% Nitrobenzene-d5	97		%	1	04/28/15	DD	30 - 130 %
% Phenol-d5	81		%	1	04/28/15	DD	30 - 130 %
% Terphenyl-d14	106		%	1	04/28/15	DD	30 - 130 %

B = Present in blank, no bias suspected.

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

Comments:

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

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

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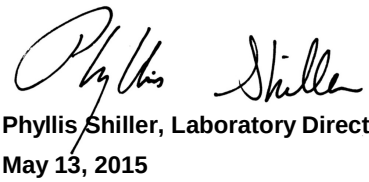

Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	13:40
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09112

Project ID: ANOCOIL
Client ID: 1251150428-46 SB-22 (1-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	2.7	0.8	mg/Kg	1	04/30/15	LK	SW6010C
Barium	58.9	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	37.7	0.39	mg/Kg	1	04/30/15	LK	SW6010C
Mercury	0.10	0.03	mg/Kg	1	04/30/15	RS	SW7471B
Lead	286	3.9	mg/Kg	10	05/01/15	EK	SW6010C
Antimony	< 3.9	3.9	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Lead	0.053	0.010	mg/L	1	05/07/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/07/15	I/I	SW3005A
Percent Solid	87		%		04/28/15	I	SW846-%Solid
Soil Extraction for SVOA	Completed				04/28/15	JJ/VH	SW3545A
Mercury Digestion	Completed				04/30/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				05/06/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-46

SB-22 (1-4')

Phoenix I.D.: BJ09112

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	26	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.5	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.5	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.5	ug/Kg	1	05/01/15	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/01/15	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	05/01/15	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	94		%	1	05/01/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dinitrophenol	ND	600	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	04/29/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	04/29/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	04/29/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	04/29/15	DD	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-46

SB-22 (1-4')

Phoenix I.D.: BJ09112

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	510	260	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	1600	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzidine	ND	450	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	1600	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	2400	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	350	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	810	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	04/29/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Carbazole	ND	560	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	1700	260	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Dibenzofuran	270	260	ug/Kg	1	04/29/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	4400	260	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	350	260	ug/Kg	1	04/29/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	4000	260	ug/Kg	1	04/29/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Pyrene	3300	260	ug/Kg	1	04/29/15	DD	SW8270D
Pyridine	ND	380	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	102		%	1	04/29/15	DD	30 - 130 %
% 2-Fluorobiphenyl	75		%	1	04/29/15	DD	30 - 130 %
% 2-Fluorophenol	66		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	84		%	1	04/29/15	DD	30 - 130 %
% Phenol-d5	70		%	1	04/29/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150428-46

SB-22 (1-4')

Phoenix I.D.: BJ09112

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	68		%	1	04/29/15	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	14:00
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09113

Project ID: ANOCOIL
Client ID: 1251150428-47 SB-23 (1-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	4.8	0.8	mg/Kg	1	04/30/15	LK	SW6010C
Barium	158	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	0.56	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	25.3	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Mercury	0.08	0.03	mg/Kg	1	04/30/15	RS	SW7471B
Lead	250	3.8	mg/Kg	10	05/01/15	EK	SW6010C
Antimony	< 3.8	3.8	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Lead	0.031	0.010	mg/L	1	05/12/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A
Percent Solid	81		%		04/28/15	I	SW846-%Solid
Soil Extraction for SVOA	Completed				04/28/15	JJ/VH	SW3545A
Mercury Digestion	Completed				04/30/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/28/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	300	ug/Kg	50	05/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150428-47

SB-23 (1-4')

Phoenix I.D.: BJ09113

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trichlorobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichlorobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
1,4-Dichlorobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
2-Chlorotoluene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
2-Isopropyltoluene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
4-Chlorotoluene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/01/15	JLI	SW8260
Acetone	ND	50	ug/Kg	1	05/01/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromobenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/01/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Hexachlorobutadiene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
Isopropylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/01/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Naphthalene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
n-Butylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
n-Propylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
p-Isopropyltoluene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
sec-Butylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Styrene	6700	300	ug/Kg	50	05/02/15	JLI	SW8260
tert-Butylbenzene	ND	300	ug/Kg	50	05/02/15	JLI	SW8260
Tetrachloroethene	430	300	ug/Kg	50	05/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/01/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	600	ug/Kg	50	05/02/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/01/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	05/02/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	05/02/15	JLI	70 - 130 %
% Dibromofluoromethane	105		%	1	05/01/15	JLI	70 - 130 %
% Toluene-d8	85		%	1	05/01/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
1,2-Dichlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
1,3-Dichlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
1,4-Dichlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dinitrophenol	ND	640	ug/Kg	1	04/29/15	DD	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2-Methylnaphthalene	460	280	ug/Kg	1	04/29/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
2-Nitroaniline	ND	640	ug/Kg	1	04/29/15	DD	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
3-Nitroaniline	ND	640	ug/Kg	1	04/29/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	1	04/29/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
4-Chloroaniline	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
4-Nitroaniline	ND	640	ug/Kg	1	04/29/15	DD	SW8270D
4-Nitrophenol	ND	1200	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150428-47

SB-23 (1-4')

Phoenix I.D.: BJ09113

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Acetophenone	2800	280	ug/Kg	1	04/29/15	DD	SW8270D
Aniline	ND	1200	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzidine	ND	480	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	320	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Benzoic acid	1400	1200	ug/Kg	1	04/29/15	DD	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	390	280	ug/Kg	1	04/29/15	DD	SW8270D
Carbazole	ND	600	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Dimethylphthalate	6200	280	ug/Kg	1	04/29/15	DD	SW8270D
Di-n-butylphthalate	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	310	280	ug/Kg	1	04/29/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorobutadiene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Hexachloroethane	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Isophorone	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
Pentachloronitrobenzene	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
Pentachlorophenol	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	370	280	ug/Kg	1	04/29/15	DD	SW8270D
Phenol	ND	280	ug/Kg	1	04/29/15	DD	SW8270D
Pyrene	300	280	ug/Kg	1	04/29/15	DD	SW8270D
Pyridine	ND	400	ug/Kg	1	04/29/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	04/29/15	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	1	04/29/15	DD	30 - 130 %
% 2-Fluorophenol	82		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	90		%	1	04/29/15	DD	30 - 130 %
% Phenol-d5	66		%	1	04/29/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150428-47

SB-23 (1-4')

Phoenix I.D.: BJ09113

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	71		%	1	04/29/15	DD	30 - 130 %

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

Comments:

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 13, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 05, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/28/15	14:30
Location Code:	F&O-PCB	Received by:	LB	04/28/15	16:56
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09102
Phoenix ID: BJ09114

Project ID: ANOCOIL
Client ID: 1251150428-48 SB-24 (0.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		04/28/15	I	SW846-%Solid
pH - Soil	8.84	0.10	pH Units	1	04/28/15 20:00	DH/KDB	SW9045
Extraction of CT ETPH	Completed				04/28/15	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	57	mg/Kg	1	04/29/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	04/29/15	JRB	50 - 150 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 306807 (mg/L), QC Sample No: BJ04324 (BJ09106, BJ09107, BJ09112)														
ICP Metals - SPLP Extraction														
Arsenic	BRL	0.004	<0.004	<0.004	NC	101	98.6	2.4	101	101	0.0	75 - 125	20	
Barium	BRL	0.010	0.032	0.033	NC	108	108	0.0	106	106	0.0	75 - 125	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	101	101	0.0	100	101	1.0	75 - 125	20	
Lead	BRL	0.010	<0.010	<0.010	NC	103	102	1.0	101	102	1.0	75 - 125	20	
QA/QC Batch 306316 (mg/kg), QC Sample No: BJ09111 (BJ09111)														
ICP Metals - Soil														
Antimony	BRL	3.0	<3.9	<3.8	NC	80.2	82.6	2.9	83.4	82.7	0.8	75 - 125	30	
Arsenic	BRL	0.60	2.8	2.99	NC	92.7	95.2	2.7	92.2	91.3	1.0	75 - 125	30	
Barium	BRL	0.30	115	127	9.90	93.1	99.1	6.2	103	119	14.4	75 - 125	30	
Cadmium	BRL	0.30	<0.39	<0.38	NC	95.3	102	6.8	96.6	96.6	0.0	75 - 125	30	
Chromium	BRL	0.30	50.2	68.1	30.3	95.5	102	6.6	101	119	16.4	75 - 125	30	
Copper	BRL	0.30	145	223	42.4	95.6	102	6.5	>130	>130	NC	75 - 125	30	m,r
Lead	BRL	0.30	46.1	59.4	25.2	95.2	98.2	3.1	96.6	98.3	1.7	75 - 125	30	
Nickel	BRL	0.30	20.5	25.8	22.9	92.0	98.1	6.4	101	99.3	1.7	75 - 125	30	
Selenium	BRL	1.2	<1.5	<1.5	NC	87.3	91.5	4.7	82.9	83.2	0.4	75 - 125	30	
Silver	BRL	0.30	<0.39	<0.38	NC	97.9	106	7.9	101	102	1.0	75 - 125	30	
Zinc	0.49	0.30	52.4	58.0	10.1	85.1	91.7	7.5	93.5	107	13.5	75 - 125	30	
QA/QC Batch 307421 (mg/L), QC Sample No: BJ09111 (BJ09104, BJ09111, BJ09113)														
ICP Metals - SPLP Extraction														
Chromium	BRL	0.010	<0.010	<0.010	NC	98.5	97.2	1.3	99.3	99.5	0.2	75 - 125	20	
Lead	BRL	0.010	0.014	0.014	NC	96.0	94.4	1.7	95.1	95.3	0.2	75 - 125	20	
QA/QC Batch 306368 (mg/kg), QC Sample No: BJ09111 (BJ09107, BJ09108, BJ09111, BJ09112, BJ09113)														
Mercury - Soil	BRL	0.06	0.05	0.28	NC	94.9	95.0	0.1	114	89.0	24.6	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 306209 (mg/kg), QC Sample No: BJ09322 (BJ09104, BJ09106)														
Mercury - Soil	BRL	0.06	0.35	0.56	46.2	104	104	0.0	130	165	23.7	70 - 130	30	m,r
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 306317 (mg/kg), QC Sample No: BJ09555 (BJ09104, BJ09105, BJ09106, BJ09107, BJ09108, BJ09109, BJ09112, BJ09113)														
ICP Metals - Soil														
Aluminum	BRL	4.7	5430	6730	21.4	96.5	94.6	2.0	NC	NC	NC	75 - 125	30	
Antimony	BRL	3.1	<3.4	<3.6	NC	84.2	91.3	8.1	90.4	89.1	1.4	75 - 125	30	
Arsenic	BRL	0.63	2.3	1.72	NC	97.6	97.1	0.5	93.2	93.4	0.2	75 - 125	30	
Barium	BRL	0.31	61.0	84.9	32.8	115	98.2	15.8	108	101	6.7	75 - 125	30	r
Cadmium	BRL	0.31	<0.34	<0.36	NC	97.6	101	3.4	96.4	98.0	1.6	75 - 125	30	
Chromium	BRL	0.31	16.0	15.5	3.20	99.1	101	1.9	101	101	0.0	75 - 125	30	
Copper	BRL	0.31	13.2	12.2	7.90	98.9	101	2.1	108	108	0.0	75 - 125	30	

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Lead	BRL	0.31	29.5	27.7	6.30	96.8	97.9	1.1	97.3	95.9	1.4	75 - 125	30
Nickel	BRL	0.31	9.54	9.42	1.30	99.1	102	2.9	99.0	99.1	0.1	75 - 125	30
Selenium	BRL	1.3	<1.4	<1.4	NC	93.1	93.0	0.1	84.6	84.8	0.2	75 - 125	30
Silver	BRL	0.31	<0.34	<0.36	NC	99.6	98.4	1.2	101	101	0.0	75 - 125	30
Zinc	BRL	0.31	33.8	37.2	9.60	98.3	98.1	0.2	102	103	1.0	75 - 125	30

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

Environmental Laboratories, Inc.
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QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306214 (PH), QC Sample No: BJ09052 (BJ09104, BJ09105, BJ09106, BJ09109, BJ09110, BJ09114)													
pH - Soil			5.07	5.06	0.20	98.4						85 - 115	20

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QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306164 (mg/kg), QC Sample No: BJ09108 10X (BJ09104, BJ09106, BJ09107, BJ09108)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	0.17	67	72	7.2	74	73	1.4	40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	87	91	4.5	93	91	2.2	40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	85	%	84	89	5.8	89	88	1.1	30 - 150	30
% TCMX (Surrogate Rec)	79	%	77	86	11.0	86	84	2.4	30 - 150	30
QA/QC Batch 306160 (mg/Kg), QC Sample No: BJ09108 (BJ09104, BJ09106, BJ09107, BJ09108, BJ09114)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	50	84	80	4.9	81	78	3.8	60 - 120	30
% n-Pentacosane	81	%	85	82	3.6	83	79	4.9	50 - 150	30
QA/QC Batch 306165 (ug/kg), QC Sample No: BJ09108 (BJ09104, BJ09106, BJ09107, BJ09108)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	87	89	2.3	84	85	1.2	30 - 130	30
Acenaphthene	ND	230	92	95	3.2	92	92	0.0	30 - 130	30
Acenaphthylene	ND	230	87	89	2.3	86	87	1.2	30 - 130	30
Anthracene	ND	230	93	96	3.2	94	94	0.0	30 - 130	30
Benz(a)anthracene	ND	230	93	97	4.2	94	94	0.0	30 - 130	30
Benzo(a)pyrene	ND	230	90	95	5.4	93	92	1.1	30 - 130	30
Benzo(b)fluoranthene	ND	230	90	93	3.3	90	90	0.0	30 - 130	30
Benzo(ghi)perylene	ND	230	95	101	6.1	97	97	0.0	30 - 130	30
Benzo(k)fluoranthene	ND	230	89	94	5.5	90	93	3.3	30 - 130	30
Chrysene	ND	230	97	104	7.0	100	100	0.0	30 - 130	30
Dibenz(a,h)anthracene	ND	230	95	100	5.1	96	97	1.0	30 - 130	30
Fluoranthene	ND	230	98	102	4.0	101	101	0.0	30 - 130	30
Fluorene	ND	230	93	94	1.1	92	93	1.1	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	98	103	5.0	99	101	2.0	30 - 130	30
Naphthalene	ND	230	85	86	1.2	81	81	0.0	30 - 130	30
Phenanthrene	ND	230	91	94	3.2	92	93	1.1	30 - 130	30
Pyrene	ND	230	95	100	5.1	98	99	1.0	30 - 130	30
% 2-Fluorobiphenyl	69	%	83	85	2.4	81	82	1.2	30 - 130	30
% Nitrobenzene-d5	63	%	77	78	1.3	74	75	1.3	30 - 130	30
% Terphenyl-d14	88	%	84	88	4.7	87	89	2.3	30 - 130	30

Comment:

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

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 306672 (ug/kg), QC Sample No: BJ09111 (BJ09102 (50X) , BJ09103, BJ09104, BJ09106 (1X, 50X) , BJ09107 (1X, 50X) , BJ09108, BJ09111, BJ09112, BJ09113 (1X, 50X))											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	105	100	4.9	110	108	1.8	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	98	4.0	111	109	1.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	104	96	8.0	111	113	1.8	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	101	94	7.2	101	101	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	99	94	5.2	107	104	2.8	70 - 130	30	
1,1-Dichloroethene	ND	5.0	110	106	3.7	115	111	3.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	101	97	4.0	110	104	5.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	82	77	6.3	60	50	18.2	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	103	95	8.1	115	117	1.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	88	83	5.8	68	57	17.6	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	99	94	5.2	115	107	7.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	91	80	12.9	94	97	3.1	70 - 130	30	
1,2-Dibromoethane	ND	5.0	101	93	8.2	98	95	3.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	95	7.1	98	94	4.2	70 - 130	30	
1,2-Dichloroethane	ND	5.0	100	94	6.2	102	102	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	95	5.1	105	102	2.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	102	98	4.0	118	109	7.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	102	97	5.0	102	97	5.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	100	93	7.3	104	103	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	103	96	7.0	102	95	7.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	104	100	3.9	114	106	7.3	70 - 130	30	
2-Chlorotoluene	ND	5.0	105	99	5.9	118	112	5.2	70 - 130	30	
2-Hexanone	ND	25	68	61	10.9	70	70	0.0	70 - 130	30	l
2-Isopropyltoluene	ND	5.0	102	99	3.0	117	105	10.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	104	98	5.9	114	108	5.4	70 - 130	30	
4-Methyl-2-pentanone	ND	25	76	69	9.7	78	77	1.3	70 - 130	30	l
Acetone	ND	10	78	73	6.6	74	79	6.5	70 - 130	30	
Acrylonitrile	ND	5.0	100	91	9.4	88	89	1.1	70 - 130	30	
Benzene	ND	1.0	100	95	5.1	104	103	1.0	70 - 130	30	
Bromobenzene	ND	5.0	104	98	5.9	111	109	1.8	70 - 130	30	
Bromochloromethane	ND	5.0	103	96	7.0	102	102	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	107	103	3.8	108	108	0.0	70 - 130	30	
Bromoform	ND	5.0	104	97	7.0	100	99	1.0	70 - 130	30	
Bromomethane	ND	5.0	109	106	2.8	114	117	2.6	70 - 130	30	
Carbon Disulfide	ND	5.0	120	115	4.3	118	121	2.5	70 - 130	30	
Carbon tetrachloride	ND	5.0	102	98	4.0	112	107	4.6	70 - 130	30	
Chlorobenzene	ND	5.0	101	96	5.1	104	100	3.9	70 - 130	30	
Chloroethane	ND	5.0	84	85	1.2	101	100	1.0	70 - 130	30	
Chloroform	ND	5.0	101	95	6.1	106	104	1.9	70 - 130	30	
Chloromethane	ND	5.0	92	86	6.7	99	97	2.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	101	95	6.1	103	100	3.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	105	98	6.9	101	96	5.1	70 - 130	30	
Dibromochloromethane	ND	3.0	112	102	9.3	110	110	0.0	70 - 130	30	
Dibromomethane	ND	5.0	101	93	8.2	100	98	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	86	80	7.2	86	82	4.8	70 - 130	30	
Ethylbenzene	ND	1.0	103	99	4.0	109	104	4.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	94	92	2.2	97	68	35.2	70 - 130	30	m,r
Isopropylbenzene	ND	1.0	103	99	4.0	128	118	8.1	70 - 130	30	
m&p-Xylene	ND	2.0	102	97	5.0	108	101	6.7	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl ethyl ketone	ND	5.0	77	70	9.5	72	71	1.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	97	6.0	100	101	1.0	70 - 130	30	
Methylene chloride	ND	5.0	109	102	6.6	92	92	0.0	70 - 130	30	
Naphthalene	ND	5.0	89	82	8.2	67	66	1.5	70 - 130	30	m
n-Butylbenzene	ND	1.0	100	96	4.1	115	96	18.0	70 - 130	30	
n-Propylbenzene	ND	1.0	99	94	5.2	124	114	8.4	70 - 130	30	
o-Xylene	ND	2.0	101	97	4.0	105	101	3.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	102	98	4.0	119	104	13.5	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	101	2.0	121	106	13.2	70 - 130	30	
Styrene	ND	5.0	98	93	5.2	97	92	5.3	70 - 130	30	
tert-Butylbenzene	ND	1.0	101	98	3.0	122	110	10.3	70 - 130	30	
Tetrachloroethene	ND	5.0	105	100	4.9	115	107	7.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	100	89	11.6	97	97	0.0	70 - 130	30	
Toluene	ND	1.0	103	98	5.0	105	102	2.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	105	100	4.9	108	103	4.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	104	96	8.0	95	90	5.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	88	80	9.5	90	88	2.2	70 - 130	30	
Trichloroethene	ND	5.0	106	101	4.8	110	105	4.7	70 - 130	30	
Trichlorofluoromethane	ND	5.0	106	101	4.8	120	115	4.3	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	105	99	5.9	114	108	5.4	70 - 130	30	
Vinyl chloride	ND	5.0	103	97	6.0	104	100	3.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	101	100	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	94	%	99	99	0.0	94	94	0.0	70 - 130	30	
% Dibromofluoromethane	96	%	99	99	0.0	103	100	3.0	70 - 130	30	
% Toluene-d8	96	%	101	100	1.0	101	99	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 306144 (ug/Kg), QC Sample No: BJ09111 (BJ09111, BJ09112, BJ09113)

Semivolatiles - Soil

1,2,4,5-Tetrachlorobenzene	ND	230	76	78	2.6	94	93	1.1	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	72	73	1.4	91	92	1.1	30 - 130	30	
1,2-Dichlorobenzene	ND	230	60	64	6.5	78	80	2.5	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	80	81	1.2	92	89	3.3	30 - 130	30	
1,3-Dichlorobenzene	ND	230	57	61	6.8	74	78	5.3	30 - 130	30	
1,4-Dichlorobenzene	ND	230	58	62	6.7	76	80	5.1	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	83	81	2.4	98	97	1.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	82	83	1.2	103	102	1.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	78	79	1.3	96	94	2.1	30 - 130	30	
2,4-Dimethylphenol	ND	230	74	75	1.3	95	94	1.1	30 - 130	30	
2,4-Dinitrophenol	ND	230	16	41	87.7	31	18	53.1	30 - 130	30	l,m,r
2,4-Dinitrotoluene	ND	130	86	86	0.0	106	107	0.9	30 - 130	30	
2,6-Dinitrotoluene	ND	130	82	82	0.0	99	97	2.0	30 - 130	30	
2-Chloronaphthalene	ND	230	78	79	1.3	94	93	1.1	30 - 130	30	
2-Chlorophenol	ND	230	67	71	5.8	86	87	1.2	30 - 130	30	
2-Methylnaphthalene	ND	230	77	77	0.0	95	95	0.0	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	71	76	6.8	92	87	5.6	30 - 130	30	
2-Nitroaniline	ND	670	80	84	4.9	108	107	0.9	30 - 130	30	
2-Nitrophenol	ND	230	75	77	2.6	99	99	0.0	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	79	80	1.3	95	97	2.1	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	81	82	1.2	88	89	1.1	30 - 130	30	
3-Nitroaniline	ND	670	84	80	4.9	90	79	13.0	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	170	39	61	44.0	77	61	23.2	30 - 130	30	r

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Bromophenyl phenyl ether	ND	230	82	84	2.4	90	87	3.4	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	81	81	0.0	98	98	0.0	30 - 130	30	
4-Chloroaniline	ND	230	76	68	11.1	60	56	6.9	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	81	82	1.2	95	95	0.0	30 - 130	30	
4-Nitroaniline	ND	670	91	92	1.1	112	110	1.8	30 - 130	30	
4-Nitrophenol	ND	230	75	79	5.2	124	132	6.3	30 - 130	30	m
Acenaphthene	ND	230	74	76	2.7	89	89	0.0	30 - 130	30	
Acenaphthylene	ND	230	77	78	1.3	93	92	1.1	30 - 130	30	
Acetophenone	ND	230	77	80	3.8	95	100	5.1	30 - 130	30	
Aniline	ND	970	62	57	8.4	62	61	1.6	30 - 130	30	
Anthracene	ND	230	81	84	3.6	96	97	1.0	30 - 130	30	
Benz(a)anthracene	ND	230	87	87	0.0	100	101	1.0	30 - 130	30	
Benzidine	ND	330	67	61	9.4	32	23	32.7	30 - 130	30	m,r
Benzo(a)pyrene	ND	230	82	83	1.2	96	95	1.0	30 - 130	30	
Benzo(b)fluoranthene	ND	230	81	82	1.2	94	92	2.2	30 - 130	30	
Benzo(ghi)perylene	ND	230	79	81	2.5	96	84	13.3	30 - 130	30	
Benzo(k)fluoranthene	ND	230	80	81	1.2	97	94	3.1	30 - 130	30	
Benzoic Acid	ND	330	<10	12	NC	<10	<10	NC	30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	87	81	7.1	121	127	4.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	78	79	1.3	98	97	1.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	58	61	5.0	75	79	5.2	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	63	67	6.2	78	81	3.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	76	78	2.6	104	112	7.4	30 - 130	30	
Carbazole	ND	500	79	82	3.7	110	113	2.7	30 - 130	30	
Chrysene	ND	230	78	80	2.5	94	95	1.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	80	83	3.7	97	92	5.3	30 - 130	30	
Dibenzofuran	ND	230	84	84	0.0	100	99	1.0	30 - 130	30	
Diethyl phthalate	ND	230	80	81	1.2	96	95	1.0	30 - 130	30	
Dimethylphthalate	ND	230	79	81	2.5	97	94	3.1	30 - 130	30	
Di-n-butylphthalate	ND	230	82	84	2.4	99	99	0.0	30 - 130	30	
Di-n-octylphthalate	ND	230	83	88	5.8	92	94	2.2	30 - 130	30	
Fluoranthene	ND	230	84	82	2.4	128	127	0.8	30 - 130	30	
Fluorene	ND	230	83	83	0.0	98	99	1.0	30 - 130	30	
Hexachlorobenzene	ND	130	78	80	2.5	90	86	4.5	30 - 130	30	
Hexachlorobutadiene	ND	230	72	77	6.7	94	94	0.0	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	83	82	1.2	33	16	69.4	30 - 130	30	m,r
Hexachloroethane	ND	130	57	62	8.4	72	73	1.4	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	69	71	2.9	84	75	11.3	30 - 130	30	
Isophorone	ND	130	73	75	2.7	92	91	1.1	30 - 130	30	
Naphthalene	ND	230	71	74	4.1	92	93	1.1	30 - 130	30	
Nitrobenzene	ND	130	68	70	2.9	85	88	3.5	30 - 130	30	
N-Nitrosodimethylamine	ND	230	62	64	3.2	79	83	4.9	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	79	81	2.5	96	99	3.1	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	77	78	1.3	94	96	2.1	30 - 130	30	
Pentachloronitrobenzene	ND	230	87	89	2.3	100	98	2.0	30 - 130	30	
Pentachlorophenol	ND	230	62	61	1.6	103	104	1.0	30 - 130	30	
Phenanthrene	ND	230	80	83	3.7	93	95	2.1	30 - 130	30	
Phenol	ND	230	71	71	0.0	88	90	2.2	30 - 130	30	
Pyrene	ND	230	86	82	4.8	132	125	5.4	30 - 130	30	m
Pyridine	ND	230	47	50	6.2	64	68	6.1	30 - 130	30	
% 2,4,6-Tribromophenol	99	%	75	81	7.7	93	93	0.0	30 - 130	30	
% 2-Fluorobiphenyl	84	%	73	77	5.3	86	86	0.0	30 - 130	30	
% 2-Fluorophenol	71	%	64	68	6.1	84	88	4.7	30 - 130	30	

QA/QC Data

SDG I.D.: GBJ09102

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	86	%		64	70	9.0	80	83	3.7	30 - 130	30
% Phenol-d5	75	%		68	72	5.7	85	87	2.3	30 - 130	30
% Terphenyl-d14	91	%		86	80	7.2	123	116	5.9	30 - 130	30

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
May 13, 2015

Sample Criteria Exceedences Report

GBJ09102 - FO-PCB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ09104	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2600	280	1000	1000	ug/Kg
BJ09104	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2800	280	1000	1000	ug/Kg
BJ09104	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5800	280	4000	4000	ug/Kg
BJ09104	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3200	280	1000	1000	ug/Kg
BJ09104	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3200	280	1000	1000	ug/Kg
BJ09104	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2600	280	1000	1000	ug/Kg
BJ09104	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2800	280	1000	1000	ug/Kg
BJ09104	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.218	0.010	0.015	0.015	mg/L
BJ09106	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1300	280	1000	1000	ug/Kg
BJ09106	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1400	280	1000	1000	ug/Kg
BJ09106	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1400	280	1000	1000	ug/Kg
BJ09106	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	280	1000	1000	ug/Kg
BJ09106	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	280	1000	1000	ug/Kg
BJ09106	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	280	1000	1000	ug/Kg
BJ09106	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1300	300	500	500	mg/Kg
BJ09106	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1300	300	500	500	mg/Kg
BJ09106	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	16.9	0.8	10	10	mg/Kg
BJ09106	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.041	0.010	0.015	0.015	mg/L
BJ09107	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	9200	1600	4000	4000	ug/Kg
BJ09107	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1500	320	1000	1000	ug/Kg
BJ09107	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1500	320	1000	1000	ug/Kg
BJ09107	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	1000	340	500	500	mg/Kg
BJ09107	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	1000	340	500	500	mg/Kg
BJ09107	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	45.6	0.9	10	10	mg/Kg
BJ09107	SPLP-AS	SPLP Arsenic	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.018	0.004	0.01	0.01	mg/L
BJ09107	SPLP-CR	SPLP Chromium	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.123	0.010	0.05	0.05	mg/L
BJ09107	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.020	0.010	0.015	0.015	mg/L
BJ09112	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2400	260	1000	1000	ug/Kg
BJ09112	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1600	260	1000	1000	ug/Kg
BJ09112	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1600	260	1000	1000	ug/Kg
BJ09112	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	260	1000	1000	ug/Kg
BJ09112	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2400	260	1000	1000	ug/Kg
BJ09112	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	260	1000	1000	ug/Kg
BJ09112	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.053	0.010	0.015	0.015	mg/L
BJ09113	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	430	300	100	100	ug/Kg
BJ09113	$8260MAR	Styrene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	6700	300	2000	2000	ug/Kg
BJ09113	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.031	0.010	0.015	0.015	mg/L

Sample Criteria Exceedences Report

GBJ09102 - FO-PCB

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

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ09102, BJ09103, BJ09104, BJ09105, BJ09106, BJ09107, BJ09108, BJ09109, BJ09110, BJ09111, BJ09112, BJ09113, BJ09114

Sampling Date(s): 4/28/2015

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, PAH 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, May 13, 2015

Printed Name: Ethan Lee

Position: Project Manager

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SDG I.D.: GBJ09102

BJ09104, BJ09106, BJ09107, BJ09108 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

BJ09104, BJ09106, BJ09107, BJ09108 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

BJ09105, BJ09109 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

BJ09111 - The following analytes from the 6010 RCP Metals list were not reported: Beryllium, Thallium, Vanadium.

BJ09112, BJ09113 - The following analytes from the 6010 RCP Metals list were not reported: Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

ETPH Narration

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

Instrument: Au-fid84 04/29/15-1 (BJ09107, BJ09114)

Initial Calibration (FID84 - ETPH_413) - 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: 4/29/2015

Instrument: Au-fid84 04/29/15-2 (BJ09106)

Initial Calibration (FID84 - ETPH_413) - 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: 4/29/2015

Instrument: Au-fid84 04/30/15-2 (BJ09104)

Initial Calibration (FID84 - ETPH_413) - 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

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Printed Name Jeff Bucko
Position: Chemist
Date: 4/30/2015

Instrument: Au-xl2 04/29/15-1 (BJ09108)

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: 4/29/2015

Instrument: Au-xl2 04/29/15-2 (BJ09108)

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: 4/29/2015

QC (Site Specific)

---------- Sample No: BJ09108, QA/QC Batch: 306160 ----------

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.

Mercury Narration

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

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SDG I.D.: GBJ09102

Instrument: Merlin 04/29/15-1 (BJ09104, BJ09106)

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: 4/29/2015

Instrument: Merlin 04/30/15-1 (BJ09107, BJ09108, BJ09111, BJ09112, BJ09113)

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: 4/30/2015

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QC (Site Specific)

---------- Sample No: BJ09111, QA/QC Batch: 306368 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ09322, QA/QC Batch: 306209 ----------

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? No.

QC Batch 306316 (Samples: BJ09111): -----

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. (Soil-Zinc(BJ09111))

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Copper)

Instrument: Arcos 04/29/15-1 (BJ09104, BJ09105, BJ09106, BJ09107, BJ09108, BJ09109, BJ09111, BJ09112, BJ09113)

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: 4/29/2015

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Instrument: Arcos 04/30/15-1 (BJ09104, BJ09105, BJ09106, BJ09107, BJ09108, BJ09109, BJ09111, BJ09112, BJ09113)

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: 4/30/2015

Instrument: Arcos 05/01/15-1 (BJ09104, BJ09107, BJ09111, BJ09112, BJ09113)

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: 5/1/2015

Instrument: Arcos 05/07/15-1 (BJ09106, BJ09107, BJ09112)

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: 5/7/2015

Instrument: Arcos 05/11/15-1 (BJ09104, BJ09111, BJ09113)

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: 5/11/2015

Instrument: Arcos 05/12/15-1 (BJ09104, BJ09111, BJ09113)

The initial calibration met criteria.

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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: 5/12/2015

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SDG I.D.: GBJ09102

QC (Site Specific)

---------- Sample No: BJ09111, QA/QC Batch: 306316 ----------

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: Copper(>130%)

All MSD recoveries were within 75 - 125 with the following exceptions: Copper(>130%)

All MS/MSD RPDs were less than 30% with the following exceptions: None.

---------- Sample No: BJ09111, QA/QC Batch: 307421 ----------

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: BJ04324, QA/QC Batch: 306807 ----------

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: BJ09555, QA/QC Batch: 306317 ----------

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.

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RCP Certification Report

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SDG I.D.: GBJ09102

PAH Narration

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

See SVOA Narration.

Instrument: Chem05 04/28/15-3 (BJ09104)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0428_28-BN_0415):
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: 4/28/2015

Instrument: Chem05 04/29/15-1 (BJ09106, BJ09107)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0429_02-BN_0415):
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: 4/29/2015

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SDG I.D.: GBJ09102

QC (Site Specific)

---------- Sample No: BJ09108, QA/QC Batch: 306165 ----------

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.

---------- Sample No: BJ09111, QA/QC Batch: 306144 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(16%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzoic Acid(12%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(87.7%), 4,6-Dinitro-2-methylphenol(44.0%)

All MS recoveries were within 30 - 130 with the following exceptions: Benzoic Acid(<10%), Pyrene(132%)

All MSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(18%), 4-Nitrophenol(132%), Benzidine(23%), Benzoic Acid(<10%), Hexachlorocyclopentadiene(16%)

All MS/MSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(53.1%), Benzidine(32.7%), Hexachlorocyclopentadiene(69.4%)

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.

PCB Narration

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

Instrument: Au-ecd24 04/29/15-1 (BJ09104, BJ09108)

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: noneThe initial calibration (PC318AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC318BI) RSD for the compound list was less than 20% except for the following compounds: None.

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The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/29/2015

Instrument: Au-ecd5 04/29/15-1 (BJ09106, BJ09107, BJ09108)

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: noneThe initial calibration (PC423AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC423BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/29/2015

QC (Site Specific)

---------- Sample No: BJ09108, QA/QC Batch: 306164 ----------

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.

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SVOA Narration

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

QC Batch 306144 (Samples: BJ09111, BJ09112, BJ09113): -----

The LCS and/or LCSD recovery for one or more compounds is below range. A low bias for these compounds is possible. (2,4-Dinitrophenol)

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. (Benzidine, Hexachlorocyclopentadiene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, but these analytes were not reported in the sample(s) so no variability is suspected. (2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol)

The MS and/or the MSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (4-Nitrophenol)

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Pyrene)

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

Instrument: Chem06 04/28/15-2 (BJ09107, BJ09108)

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/SV_0429):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (39%), 2-Nitroaniline (21%), 4,6-Dinitro-2-methylphenol (44%), 4-Nitrophenol (23%), Pentachlorophenol (38%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0428_35-SV_0429):
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: Benzidine (-34%)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.069)[0.1], Hexachlorobenzene (.072)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/28/2015

Instrument: Chem12 04/28/15-2 (BJ09111, BJ09112, BJ09113)

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_0423):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (27%), Benzidine (41%), Benzoic Acid (23%)
The following compounds did not meet a minimum response factor of 0.01: None.

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Continuing Calibration Verification (CHEM12/0428_26-sv_0423):
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: Benzidine (-38%)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.088)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/28/2015

QC (Site Specific)

---------- Sample No: BJ09108, QA/QC Batch: 306165 ----------

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.

---------- Sample No: BJ09111, QA/QC Batch: 306144 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(16%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzoic Acid(12%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(87.7%), 4,6-Dinitro-2-methylphenol(44.0%)

All MS recoveries were within 30 - 130 with the following exceptions: Benzoic Acid(<10%), Pyrene(132%)

All MSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(18%), 4-Nitrophenol(132%), Benzidine(23%), Benzoic Acid(<10%), Hexachlorocyclopentadiene(16%)

All MS/MSD RPDs were less than 30% with the following exceptions: 2,4-Dinitrophenol(53.1%), Benzidine(32.7%), Hexachlorocyclopentadiene(69.4%)

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.

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May 13, 2015

SDG I.D.: GBJ09102

VOA Narration

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

QC Batch 306672 (Samples: BJ09102, BJ09103, BJ09104, BJ09106, BJ09107, BJ09108, BJ09111, BJ09112, BJ09113): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (2-Hexanone)

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. (4-Methyl-2-pentanone)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, Hexachlorobutadiene, Naphthalene)

Instrument: Chem15 05/01/15-1 (BJ09102, BJ09103, BJ09104, BJ09106, BJ09107, BJ09108, BJ09111, BJ09112, BJ09113)

Initial Calibration Verification (CHEM15/voa5g_0429):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-Chloropropane (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM15/0501B02-voa5g_0429):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 5/1/2015

QC (Batch Specific)

---------- Sample No: BJ09111, QA/QC Batch: 306672 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(68%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(61%), 4-Methyl-2-pentanone(69%)

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

Temperature Narration

The samples in this delivery group were received at 6°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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ09102

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

6°w/ice

CHAIN-OF-CUSTODY RECORD 32782

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Anocoil
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20145A.P20
LABORATORY: Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO: same
P.O. NO.: Quote: FO 040315 BA
Sampler's Signature: _____ Date: 4/28/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH	PAHs (8270)	PCBs (soxhlet)	RCRA 8 metals	pH	Aluminum	SVOCs (8270) + Antimony	Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container ☐ $Na(SO_4)_2$	Other: Glass - 4oz	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
36					125115042B-36	X	4/28/15	0815	X								1							6	9	1	02	
37					-37	X		0816	X									2						0	9	1	03	
38					-38	5		0840	X	X	X	X	X	X			1	2	1					0	9	1	04	
39					-39			0910						X	X					1				0	9	1	05	
40					-40			0920	X	X	X	X	X	X	X		1	2	1					0	9	1	06	
41					-41			0930	X	X	X	X	X				1	2	1					0	9	1	07	
42					-42			1010	X	X	X	X	X				1	2	1					0	9	1	08	
43					-43			1120						X	X				1					0	9	1	09	
44					-44			1145						X			~~1~~	~~2~~	1					0	9	1	10	
45					-45			1315	X				X			X	~~3~~	~~2~~	~~3~~			MS/MSD						RCRA 8 metals ~~metals~~ only 09111

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Canadian	4/28/15	1656
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
____ Duplicates 2 Blanks (Item Nos: 36, 37)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC Res DEC
Additional Comments:

6° w/c + I

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

CHAIN-OF-CUSTODY RECORD 32783

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	2001454.P20	Phoenix

Report To: Kevin Vandeveer (F+O)
Invoice To: same
P.O. No.: Quote # FO 040315 BA
Sampler's Signature: _____ Date: 4/28/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: VOCs (8260)	SVOCs (8270)	RCRA 8 metals	Antimony	CT ETPH	pH	Containers: Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
46					1251150428-46	S	4/28/15	1340	X	X	X	X			1	2	1									09112
47					-47			1400	X	X	X	X			1	2	1									09113
48					-48			1430					X	X			1									09114

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____	CParadise	4/28/15	1656
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC
Additional Comments:

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Wednesday, May 06, 2015 9:52 AM
To: bobbi@phoenixlabs.com
Subject: Anocoil - SPLP Metals Request BJ09106, -07, -12)

Bobbi,

Please run the follow samples for the specified SPLP metals:

- BJ09106 – SPLP arsenic, chromium, and lead
- BJ09107 – SPLP arsenic, barium, chromium, and lead
- BJ09112 – SPLP lead

Thank you,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin

PHOENIX
Environmental Laboratories, Inc.

Wednesday, May 13, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ09553 - BJ09562

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED
By pbibeau at 10:32 am, May 18, 2015
DMS

PHOENIX
Environmental Laboratories, Inc.

Thursday, May 07, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ09553 - BJ09562

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.

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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

REVIEWED **DMS**
By pbibeau at 8:49 am, May 08, 2015

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	8:15
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09553

Project ID: ANOCOIL
Client ID: 1251150429-49

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/29/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	05/02/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150429-49

Trip Blank - high

Phoenix I.D.: BJ09553

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	05/02/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	05/02/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	05/02/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	05/02/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	05/02/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	05/02/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	05/02/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	05/02/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	50	05/02/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	05/02/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150429-49 Trip Blank - high

Phoenix I.D.: BJ09553

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	50	05/02/15	JLI	70 - 130 %
% Toluene-d8	92		%	50	05/02/15	JLI	70 - 130 %

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

Comments:

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

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

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

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	8:16
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09554

Project ID: ANOCOIL
Client ID: 1251150429-50

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				04/29/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	05/02/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150429-50

Trip Blank - low

Phoenix I.D.: BJ09554

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	05/02/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	05/02/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	05/02/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	05/02/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/02/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/02/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	05/02/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	05/02/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	05/02/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	05/02/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150429-50 Trip Blank - low

Phoenix I.D.: BJ09554

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	101		%	1	05/02/15	JLI	70 - 130 %
% Toluene-d8	91		%	1	05/02/15	JLI	70 - 130 %

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

Comments:

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

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

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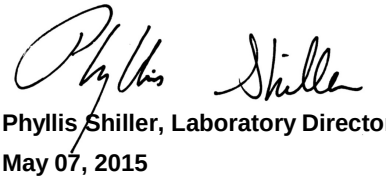

Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	8:40
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09555

Project ID: ANOCOIL
Client ID: 1251150429-51 SB-25 (2-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	2.3	0.7	mg/Kg	1	04/30/15	LK	SW6010C
Barium	61.0	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	16.0	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Copper	13.2	0.34	mg/kg	1	04/30/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	05/01/15	RS	SW7471B
Nickel	9.54	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Lead	29.5	0.34	mg/Kg	1	04/30/15	LK	SW6010C
QC for Mercury	Completed				05/01/15		
QC for ICP	Completed				04/30/15		SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	04/30/15	LK	SW6010C
Zinc	33.8	0.34	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	91		%		04/29/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/29/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/29/15	JC/V	SW3545A
MS/MSD Ext. for CT ETPH	Completed				04/30/15		
Mercury Digestion MS/MSD	Completed				05/01/15		SW7471B
Mercury Digestion	Completed				05/01/15	I/I	SW7471B
MS/MSD Ext. For PCB	Completed				04/30/15		
Extraction for PCB	Completed				04/29/15	PP/W	SW3540C
MS/MSD Ext. for Semi-Vol.	Completed				04/30/15		
Total Metals Digest MS/MSD	Completed				04/30/15		
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/29/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	660	54	mg/Kg	1	05/02/15	JRB	CTETPH 8015D

Project ID: ANOCOIL
Client ID: 1251150429-51

SB-25 (2-5')

Phoenix I.D.: BJ09555

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Identification	**		mg/Kg	1	05/02/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	103		%	1	05/02/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1221	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1232	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1242	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1248	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1254	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1260	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1262	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1268	ND	0.37	mg/kg	10	04/30/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	111		%	10	04/30/15	KCA	30 - 150 %
% TCMX	105		%	10	04/30/15	KCA	30 - 150 %
QC for PCB	Completed				04/30/15	KCA	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	05/07/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichlorobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
1,4-Dichlorobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
2-Chlorotoluene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	05/07/15	JLI	SW8260
2-Isopropyltoluene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
4-Chlorotoluene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	05/07/15	JLI	SW8260
Acetone	ND	28	ug/Kg	1	05/07/15	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150429-51

SB-25 (2-5')

Phoenix I.D.: BJ09555

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromobenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	05/07/15	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Hexachlorobutadiene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
Isopropylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	05/07/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	05/07/15	JLI	SW8260
Methylene chloride	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Naphthalene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
n-Butylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
n-Propylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
p-Isopropyltoluene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
sec-Butylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
tert-Butylbenzene	ND	290	ug/Kg	50	05/02/15	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	05/07/15	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	580	ug/Kg	50	05/02/15	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	05/07/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	50	05/02/15	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	05/02/15	JLI	70 - 130 %
% Dibromofluoromethane	112		%	1	05/07/15	JLI	70 - 130 %
% Toluene-d8	84		%	1	05/07/15	JLI	70 - 130 %
QC for Volatile	Completed				05/02/15	JLI	

Project ID: ANOCOIL
Client ID: 1251150429-51 SB-25 (2-5')

Phoenix I.D.: BJ09555

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QC for Volatile	Completed				05/02/15	JLI	
MS/MSD Volatiles	Completed				05/02/15	JLI	
Polynuclear Aromatic HC							
2-Methylnaphthalene	380	260	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Acenaphthylene	2300	260	ug/Kg	1	04/29/15	DD	SW8270D
Anthracene	2100	260	ug/Kg	1	04/29/15	DD	SW8270D
Benz(a)anthracene	4800	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(a)pyrene	3900	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(b)fluoranthene	4400	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(ghi)perylene	1200	260	ug/Kg	1	04/29/15	DD	SW8270D
Benzo(k)fluoranthene	860	260	ug/Kg	1	04/29/15	DD	SW8270D
Chrysene	4700	260	ug/Kg	1	04/29/15	DD	SW8270D
Dibenz(a,h)anthracene	470	260	ug/Kg	1	04/29/15	DD	SW8270D
Fluoranthene	7300	1300	ug/Kg	5	05/01/15	DD	SW8270D
Fluorene	770	260	ug/Kg	1	04/29/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	260	ug/Kg	1	04/29/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	04/29/15	DD	SW8270D
Phenanthrene	6700	1300	ug/Kg	5	05/01/15	DD	SW8270D
Pyrene	8100	1300	ug/Kg	5	05/01/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	04/29/15	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	04/29/15	DD	30 - 130 %
% Terphenyl-d14	79		%	1	04/29/15	DD	30 - 130 %
QC for Semi-Volatile	Completed				04/30/15		

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

Comments:

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	8:50
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09556

Project ID: ANOCOIL
Client ID: 1251150429-52 SB-25 (2-5') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Arsenic	1.8	0.8	mg/Kg	1	04/30/15	LK	SW6010C
Barium	57.8	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	18.8	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Copper	12.5	0.38	mg/kg	1	04/30/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	05/01/15	RS	SW7471B
Nickel	9.08	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Lead	29.0	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	04/30/15	LK	SW6010C
Zinc	34.1	0.38	mg/Kg	1	04/30/15	LK	SW6010C
Percent Solid	91		%		04/29/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				04/29/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/29/15	JC/V	SW3545A
Mercury Digestion	Completed				05/01/15	I/I	SW7471B
Extraction for PCB	Completed				04/29/15	PP/W	SW3540C
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
Field Extraction	Completed				04/29/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	530	55	mg/Kg	1	05/02/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	05/02/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	05/02/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1221	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1232	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1242	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1248	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1254	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1260	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1262	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1268	ND	0.36	mg/kg	10	04/30/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	113		%	10	04/30/15	KCA	30 - 150 %
% TCMX	95		%	10	04/30/15	KCA	30 - 150 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2,3-Trichloropropane	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dichlorobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,3-Dichlorobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
1,4-Dichlorobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
2-Chlorotoluene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
2-Hexanone	ND	26	ug/Kg	1	05/02/15	JLI	SW8260
2-Isopropyltoluene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
4-Chlorotoluene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
4-Methyl-2-pentanone	ND	26	ug/Kg	1	05/02/15	JLI	SW8260
Acetone	ND	31	ug/Kg	1	05/02/15	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Bromobenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Dibromochloromethane	ND	3.1	ug/Kg	1	05/02/15	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Hexachlorobutadiene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
Isopropylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Methyl Ethyl Ketone	ND	31	ug/Kg	1	05/02/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	05/02/15	JLI	SW8260
Methylene chloride	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Naphthalene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
n-Butylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
n-Propylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
p-Isopropyltoluene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
sec-Butylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
tert-Butylbenzene	ND	260	ug/Kg	50	05/07/15	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	05/02/15	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	520	ug/Kg	50	05/07/15	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	05/02/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	05/07/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	05/07/15	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	05/02/15	JLI	70 - 130 %
% Toluene-d8	87		%	1	05/02/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	860	260	ug/Kg	1	04/30/15	DD	SW8270D
Acenaphthene	600	260	ug/Kg	1	04/30/15	DD	SW8270D
Acenaphthylene	4600	2600	ug/Kg	10	05/01/15	DD	SW8270D
Anthracene	5100	2600	ug/Kg	10	05/01/15	DD	SW8270D
Benz(a)anthracene	9400	2600	ug/Kg	10	05/01/15	DD	SW8270D
Benzo(a)pyrene	6800	2600	ug/Kg	10	05/01/15	DD	SW8270D
Benzo(b)fluoranthene	7100	2600	ug/Kg	10	05/01/15	DD	SW8270D
Benzo(ghi)perylene	1500	260	ug/Kg	1	04/30/15	DD	SW8270D
Benzo(k)fluoranthene	2200	260	ug/Kg	1	04/30/15	DD	SW8270D
Chrysene	8600	2600	ug/Kg	10	05/01/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150429-52 SB-25 (2-5') Field Duplicate

Phoenix I.D.: BJ09556

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	730	260	ug/Kg	1	04/30/15	DD	SW8270D
Fluoranthene	19000	2600	ug/Kg	10	05/01/15	DD	SW8270D
Fluorene	4300	260	ug/Kg	1	04/30/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1500	260	ug/Kg	1	04/30/15	DD	SW8270D
Naphthalene	360	260	ug/Kg	1	04/30/15	DD	SW8270D
Phenanthrene	27000	2600	ug/Kg	10	05/01/15	DD	SW8270D
Pyrene	22000	2600	ug/Kg	10	05/01/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	04/30/15	DD	30 - 130 %
% Nitrobenzene-d5	76		%	1	04/30/15	DD	30 - 130 %
% Terphenyl-d14	81		%	1	04/30/15	DD	30 - 130 %

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

Comments:

DUPLICATE INCLUDED

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

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	9:10
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09557

Project ID: ANOCOIL
Client ID: 1251150429-53 SB-26 (0.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		04/29/15	I	SW846-%Solid
pH - Soil	7.44	0.10	pH Units	1	04/29/15 19:40	DH/KDB	SW9045

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/29/15	9:15
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09558

Project ID: ANOCOIL
Client ID: 1251150429-54

Equipment Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/30/15	LK	SW6010C/E200.7
Aluminum	0.068	0.010	mg/L	1	04/30/15	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/30/15	LK	SW6010C/E200.7
Barium	< 0.002	0.002	mg/L	1	04/30/15	LK	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	04/30/15	LK	SW6010C/E200.7
Chromium	0.003	0.001	mg/L	1	04/30/15	LK	SW6010C/E200.7
Copper	< 0.005	0.005	mg/L	1	04/30/15	LK	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/30/15	RS	SW7470/245.1
Nickel	< 0.001	0.001	mg/L	1	04/30/15	LK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	04/30/15	LK	SW6010C/E200.7
Antimony	< 0.005	0.005	mg/L	1	04/30/15	LK	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	04/30/15	LK	SW6010C/E200.7
Zinc	< 0.002	0.002	mg/L	1	04/30/15	LK	SW6010C/E200.7
pH	6.66	0.10	pH Units	1	04/30/15 03:27	RWR/KDB	SM4500-H B-00
Extraction of CT ETPH	Completed				04/30/15	W/W	SW3510C/SW3520C
Mercury Digestion	Completed				04/30/15	I/I	SW7470/245.1
PCB Extraction	Completed				04/29/15	B/T	SW3510C
Semi-Volatile Extraction	Completed				04/29/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/29/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/30/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	136		%	1	04/30/15	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A

Project ID: ANOCOIL
Client ID: 1251150429-54

Equipment Blank

Phoenix I.D.: BJ09558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1221	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1232	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1242	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1248	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1254	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1260	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1262	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
PCB-1268	ND	0.50	ug/L	1	04/30/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	89		%	1	04/30/15	KCA	30 - 150 %
% TCMX	81		%	1	04/30/15	KCA	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/30/15	RM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/30/15	RM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/30/15	RM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/30/15	RM	SW8260
Acetone	ND	25	ug/L	1	04/30/15	RM	SW8260
Acrylonitrile	ND	5.0	ug/L	1	04/30/15	RM	SW8260
Benzene	ND	0.70	ug/L	1	04/30/15	RM	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/30/15	RM	SW8260
Bromoform	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Bromomethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/30/15	RM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260

Project ID: ANOCOIL
Client ID: 1251150429-54 Equipment Blank

Phoenix I.D.: BJ09558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Chloroform	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Chloromethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/30/15	RM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/30/15	RM	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/30/15	RM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/30/15	RM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Naphthalene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
o-Xylene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Styrene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/30/15	RM	SW8260
Toluene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/30/15	RM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/30/15	RM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/30/15	RM	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/30/15	RM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/30/15	RM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	04/30/15	RM	70 - 130 %
% Bromofluorobenzene	100		%	1	04/30/15	RM	70 - 130 %
% Dibromofluoromethane	96		%	1	04/30/15	RM	70 - 130 %
% Toluene-d8	98		%	1	04/30/15	RM	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.7	ug/L	1	05/02/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.7	ug/L	1	05/02/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.7	ug/L	1	05/02/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150429-54

Equipment Blank

Phoenix I.D.: BJ09558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dinitrophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
2-Chloronaphthalene	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
2-Chlorophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
2-Nitroaniline	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
2-Nitrophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	11	ug/L	1	05/02/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
3-Nitroaniline	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
4-Chloroaniline	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
4-Nitroaniline	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
4-Nitrophenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
Acetophenone	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Aniline	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Benzidine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Benzoic acid	ND	54	ug/L	1	05/02/15	DD	SW8270D
Benzyl butyl phthalate	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Carbazole	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Dibenzofuran	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Diethyl phthalate	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Dimethylphthalate	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Di-n-butylphthalate	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Di-n-octylphthalate	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Isophorone	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
N-Nitrosodimethylamine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	5.4	ug/L	1	05/02/15	DD	SW8270D
Phenol	ND	1.1	ug/L	1	05/02/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	05/02/15	DD	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	05/02/15	DD	30 - 130 %
% 2-Fluorophenol	35		%	1	05/02/15	DD	15 - 110 %
% Nitrobenzene-d5	57		%	1	05/02/15	DD	30 - 130 %
% Phenol-d5	38		%	1	05/02/15	DD	15 - 110 %
% Terphenyl-d14	113		%	1	05/02/15	DD	30 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	1.1	ug/L	1	05/01/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	05/01/15	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1251150429-54

Equipment Blank

Phoenix I.D.: BJ09558

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Acenaphthylene	ND	0.05	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Benz(a)anthracene	0.02	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)	B
Chrysene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Fluorene	ND	0.11	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.11	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.11	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.11	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.86	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	05/01/15	DD	SW8270D (SIM)	
Pyridine	ND	0.54	ug/L	1	05/01/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	96		%	1	05/01/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	59		%	1	05/01/15	DD	30 - 130 %	
% 2-Fluorophenol	35		%	1	05/01/15	DD	15 - 110 %	
% Nitrobenzene-d5	57		%	1	05/01/15	DD	30 - 130 %	
% Phenol-d5	38		%	1	05/01/15	DD	15 - 110 %	
% Terphenyl-d14	113		%	1	05/01/15	DD	30 - 130 %	

Project ID: ANOCOIL
Client ID: 1251150429-54

Equipment Blank

Phoenix I.D.: BJ09558

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

B = Present in blank, no bias suspected.

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

Comments:

BLANK INCLUDED

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of 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.
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Phyllis Shiller, Laboratory Director

May 07, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	9:40
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09559

Project ID: ANOCOIL
Client ID: 1251150429-55

MW-06 (0.5-3.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		04/29/15	I	SW846-%Solid
pH - Soil	7.04	0.10	pH Units	1	04/29/15 19:40	DH/KDB	SW9045

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	9:50
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09560

Project ID: ANOCOIL
Client ID: 1251150429-56 MW-06 (5-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		04/29/15	I	SW846-%Solid
pH - Soil	5.80	0.10	pH Units	1	04/29/15 19:40	DH/KDB	SW9045

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 13, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	11:30
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09561

Project ID: ANOCOIL
Client ID: 1251150429-57

SB-28 (2.5-4.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	04/30/15	LK	SW6010C
Aluminum	9860	53	mg/Kg	10	04/30/15	LK	SW6010C
Arsenic	3.7	0.7	mg/Kg	1	04/30/15	LK	SW6010C
Barium	78.9	0.35	mg/Kg	1	04/30/15	LK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	04/30/15	LK	SW6010C
Chromium	62.2	0.35	mg/Kg	1	04/30/15	LK	SW6010C
Mercury	0.15	0.03	mg/Kg	1	05/01/15	RS	SW7471B
Lead	73.5	0.35	mg/Kg	1	04/30/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	04/30/15	LK	SW6010C
SPLP Chromium	0.109	0.010	mg/L	1	05/12/15	LK	SW6010C
SPLP Metals Digestion	Completed				05/11/15	I/I	SW3005A
Percent Solid	87		%		04/29/15	I	SW846-%Solid
pH - Soil	7.48	0.10	pH Units	1	04/29/15 19:40	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				04/29/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				04/29/15	JC/V	SW3545A
Mercury Digestion	Completed				05/01/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				05/08/15	I	SW1312
Total Metals Digest	Completed				04/29/15	CB/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	57	mg/Kg	1	04/30/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	04/30/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150429-57

SB-28 (2.5-4.5')

Phoenix I.D.: BJ09561

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acenaphthylene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Benz(a)anthracene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Benzo(a)pyrene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Benzo(b)fluoranthene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Benzo(ghi)perylene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Chrysene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Fluoranthene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Phenanthrene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
Pyrene	ND	270	ug/Kg	1	04/30/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	1	04/30/15	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	04/30/15	DD	30 - 130 %
% Terphenyl-d14	89		%	1	04/30/15	DD	30 - 130 %

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director

May 13, 2015

Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

May 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		04/29/15	12:00
Location Code:	F&O-PCB	Received by:	LB	04/29/15	15:23
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P20				

Laboratory Data

SDG ID: GBJ09553
Phoenix ID: BJ09562

Project ID: ANOCOIL
Client ID: 1251150429-58 SS-02 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		04/29/15	I	SW846-%Solid
Extraction of CT ETPH	Completed				04/29/15	JC/V	SW3545A
Extraction for PCB	Completed				04/29/15	PP/W	SW3540C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	52	mg/Kg	1	04/30/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	04/30/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	04/30/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1221	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1232	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1242	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1248	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1254	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1260	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1262	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
PCB-1268	ND	0.35	mg/kg	10	04/30/15	KCA	SW8082A
QA/QC Surrogates							
% DCBP	97		%	10	04/30/15	KCA	30 - 150 %
% TCMX	82		%	10	04/30/15	KCA	30 - 150 %

Project ID: ANOCOIL
Client ID: 1251150429-58

SS-02 (2-4')

Phoenix I.D.: BJ09562

Parameter	Result	RL/ PQL	Units	Dilution	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.
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Phyllis Shiller, Laboratory Director
May 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 307421 (mg/L), QC Sample No: BJ09111 (BJ09561)														
ICP Metals - SPLP Extraction														
Chromium	BRL	0.010	<0.010	<0.010	NC	98.5	97.2	1.3	99.3	99.5	0.2	75 - 125	20	
QA/QC Batch 306317 (mg/kg), QC Sample No: BJ09555 (BJ09555, BJ09556, BJ09561)														
ICP Metals - Soil														
Aluminum	BRL	4.7	5430	6730	21.4	96.5	94.6	2.0	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.63	2.3	1.72	NC	97.6	97.1	0.5	93.2	93.4	0.2	75 - 125	30	
Barium	BRL	0.31	61.0	84.9	32.8	115	98.2	15.8	108	101	6.7	75 - 125	30	r
Cadmium	BRL	0.31	<0.34	<0.36	NC	97.6	101	3.4	96.4	98.0	1.6	75 - 125	30	
Chromium	BRL	0.31	16.0	15.5	3.20	99.1	101	1.9	101	101	0.0	75 - 125	30	
Copper	BRL	0.31	13.2	12.2	7.90	98.9	101	2.1	108	108	0.0	75 - 125	30	
Lead	BRL	0.31	29.5	27.7	6.30	96.8	97.9	1.1	97.3	95.9	1.4	75 - 125	30	
Nickel	BRL	0.31	9.54	9.42	1.30	99.1	102	2.9	99.0	99.1	0.1	75 - 125	30	
Selenium	BRL	1.3	<1.4	<1.4	NC	93.1	93.0	0.1	84.6	84.8	0.2	75 - 125	30	
Silver	BRL	0.31	<0.34	<0.36	NC	99.6	98.4	1.2	101	101	0.0	75 - 125	30	
Zinc	BRL	0.31	33.8	37.2	9.60	98.3	98.1	0.2	102	103	1.0	75 - 125	30	
QA/QC Batch 306533 (mg/kg), QC Sample No: BJ09555 (BJ09555, BJ09556, BJ09561)														
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	104	91.8	12.5	118	109	7.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 306325 (mg/L), QC Sample No: BJ09692 (BJ09558)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.018	<0.010	NC	101	102	1.0	94.7	96.7	2.1	75 - 125	20	
Antimony	BRL	0.005	0.005	<0.005	NC	95.6	97.1	1.6	102	103	1.0	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.7	100	1.3	110	111	0.9	75 - 125	20	
Barium	BRL	0.002	0.011	0.010	9.50	98.9	98.7	0.2	95.9	97.7	1.9	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	96.9	97.3	0.4	103	104	1.0	75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	97.9	98.3	0.4	102	104	1.9	75 - 125	20	
Copper	BRL	0.005	<0.005	<0.005	NC	100	99.9	0.1	99.5	102	2.5	75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	96.5	97.5	1.0	102	104	1.9	75 - 125	20	
Nickel	BRL	0.001	0.013	0.013	0	98.7	98.9	0.2	102	104	1.9	75 - 125	20	
Selenium	BRL	0.010	0.038	0.036	NC	97.1	98.4	1.3	107	107	0.0	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	95.2	95.5	0.3	95.6	96.8	1.2	75 - 125	20	
Zinc	BRL	0.002	0.029	0.029	0	97.6	97.9	0.3	103	104	1.0	75 - 125	20	
QA/QC Batch 306369 (mg/L), QC Sample No: BJ09967 (BJ09558)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	108	102	5.7	101	94.5	6.6	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.

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

QA/QC Report

May 13, 2015

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306375 (pH), QC Sample No: BJ09389 (BJ09558)													
pH			8.16	8.18	0.20	99.0						85 - 115	20
QA/QC Batch 306391 (PH), QC Sample No: BJ09557 (BJ09557, BJ09559, BJ09560, BJ09561)													
pH - Soil			7.44	7.34	1.40	97.4						85 - 115	20

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QA/QC Report

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QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306414 (mg/L), QC Sample No: BJ09121 (BJ09558)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum HC	ND	0.070	67	71	5.8	64	64	0.0	60 - 120	30
% n-Pentacosane	61	%	70	74	5.6	68	67	1.5	50 - 150	20
QA/QC Batch 306182 (ug/L), QC Sample No: BJ09237 (BJ09558)										
Polychlorinated Biphenyls - Water										
PCB-1016	ND	0.050	96	110	13.6				40 - 140	20
PCB-1221	ND	0.050							40 - 140	20
PCB-1232	ND	0.050							40 - 140	20
PCB-1242	ND	0.050							40 - 140	20
PCB-1248	ND	0.050							40 - 140	20
PCB-1254	ND	0.050							40 - 140	20
PCB-1260	ND	0.050	124	133	7.0				40 - 140	20
PCB-1262	ND	0.050							40 - 140	20
PCB-1268	ND	0.050							40 - 140	20
% DCBP (Surrogate Rec)	67	%	61	78	24.5				30 - 150	20
% TCMX (Surrogate Rec)	65	%	97	90	7.5				30 - 150	20
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
QA/QC Batch 306567 (ug/L), QC Sample No: BJ09503 (BJ09558)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	100			103	107	3.8	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	91			101	103	2.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	95			89	100	11.6	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	93			97	107	9.8	70 - 130	30
1,1-Dichloroethane	ND	1.0	91			98	102	4.0	70 - 130	30
1,1-Dichloroethene	ND	1.0	93			91	94	3.2	70 - 130	30
1,1-Dichloropropene	ND	1.0	90			104	105	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	101			107	120	11.5	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	90			90	99	9.5	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	102			110	118	7.0	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96			112	109	2.7	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	93			93	111	17.6	70 - 130	30
1,2-Dibromoethane	ND	1.0	96			98	112	13.3	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	95			99	104	4.9	70 - 130	30
1,2-Dichloroethane	ND	1.0	95			99	108	8.7	70 - 130	30
1,2-Dichloropropane	ND	1.0	94			100	103	3.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	101			111	110	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	96			99	102	3.0	70 - 130	30
1,3-Dichloropropane	ND	1.0	97			101	109	7.6	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	95			100	103	3.0	70 - 130	30
2,2-Dichloropropane	ND	1.0	87			102	104	1.9	70 - 130	30

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
2-Chlorotoluene	ND	1.0	92			97	97	0.0	70 - 130	30
2-Hexanone	ND	5.0	93			98	116	16.8	70 - 130	30
2-Isopropyltoluene	ND	1.0	98			108	105	2.8	70 - 130	30
4-Chlorotoluene	ND	1.0	95			100	101	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	91			94	115	20.1	70 - 130	30
Acetone	ND	5.0	89			93	105	12.1	70 - 130	30
Acrylonitrile	ND	5.0	95			93	106	13.1	70 - 130	30
Benzene	ND	0.70	93			101	104	2.9	70 - 130	30
Bromobenzene	ND	1.0	92			94	97	3.1	70 - 130	30
Bromochloromethane	ND	1.0	95			98	106	7.8	70 - 130	30
Bromodichloromethane	ND	0.50	99			102	110	7.5	70 - 130	30
Bromoform	ND	1.0	105			102	112	9.3	70 - 130	30
Bromomethane	ND	1.0	87			88	91	3.4	70 - 130	30
Carbon Disulfide	ND	1.0	98			93	94	1.1	70 - 130	30
Carbon tetrachloride	ND	1.0	92			106	106	0.0	70 - 130	30
Chlorobenzene	ND	1.0	95			102	103	1.0	70 - 130	30
Chloroethane	ND	1.0	86			89	92	3.3	70 - 130	30
Chloroform	ND	1.0	93			101	105	3.9	70 - 130	30
Chloromethane	ND	1.0	81			91	93	2.2	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	93			100	104	3.9	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	97			100	109	8.6	70 - 130	30
Dibromochloromethane	ND	0.50	105			105	114	8.2	70 - 130	30
Dibromomethane	ND	1.0	95			98	110	11.5	70 - 130	30
Dichlorodifluoromethane	ND	1.0	81			96	94	2.1	70 - 130	30
Ethylbenzene	ND	1.0	96			104	102	1.9	70 - 130	30
Hexachlorobutadiene	ND	0.40	92			104	104	0.0	70 - 130	30
Isopropylbenzene	ND	1.0	90			95	96	1.0	70 - 130	30
m&p-Xylene	ND	1.0	99			105	103	1.9	70 - 130	30
Methyl ethyl ketone	ND	5.0	85			85	98	14.2	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98			99	116	15.8	70 - 130	30
Methylene chloride	ND	1.0	88			86	96	11.0	70 - 130	30
Naphthalene	ND	1.0	108			110	124	12.0	70 - 130	30
n-Butylbenzene	ND	1.0	93			111	108	2.7	70 - 130	30
n-Propylbenzene	ND	1.0	86			101	98	3.0	70 - 130	30
o-Xylene	ND	1.0	99			105	104	1.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	95			110	108	1.8	70 - 130	30
sec-Butylbenzene	ND	1.0	94			104	101	2.9	70 - 130	30
Styrene	ND	1.0	99			103	104	1.0	70 - 130	30
tert-Butylbenzene	ND	1.0	93			101	99	2.0	70 - 130	30
Tetrachloroethene	ND	1.0	94			118	114	3.4	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	86			82	99	18.8	70 - 130	30
Toluene	ND	1.0	93			101	102	1.0	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	93			99	102	3.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	100			99	112	12.3	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	97			92	102	10.3	70 - 130	30
Trichloroethene	ND	1.0	94			104	104	0.0	70 - 130	30
Trichlorofluoromethane	ND	1.0	83			93	93	0.0	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	89			97	96	1.0	70 - 130	30
Vinyl chloride	ND	1.0	89			94	95	1.1	70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	97			99	100	1.0	70 - 130	30
% Bromofluorobenzene	91	%	104			104	105	1.0	70 - 130	30
% Dibromofluoromethane	99	%	97			95	100	5.1	70 - 130	30
% Toluene-d8	101	%	100			99	101	2.0	70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 306319 (mg/kg), QC Sample No: BJ09555 10X (BJ09555, BJ09556, BJ09562)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	0.17	87	86	1.2	85	82	3.6	40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	87	84	3.5	84	79	6.1	40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	99	%	102	101	1.0	99	92	7.3	30 - 150	30
% TCMX (Surrogate Rec)	89	%	91	90	1.1	90	86	4.5	30 - 150	30
QA/QC Batch 306318 (mg/Kg), QC Sample No: BJ09555 (BJ09555, BJ09556, BJ09561, BJ09562)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	50	68	72	5.7				60 - 120	30
% n-Pentacosane	20	%	77	82	6.3				50 - 150	30
Comment:										
*The MS/MSD could not be reported due to the prsence of ETPH in the original sample. The LCS was within QA/QC criteria.										
QA/QC Batch 306675 (ug/kg), QC Sample No: BJ09555 (BJ09553 (50X) , BJ09554, BJ09555 (50X) , BJ09556)										
Volatiles - Soil										
1,1,1,2-Tetrachloroethane	ND	5.0	92	96	4.3	98	100	2.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	89	93	4.4	95	97	2.1	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	93	94	1.1	91	95	4.3	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	95	97	2.1	104	105	1.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	88	91	3.4	95	99	4.1	70 - 130	30
1,1-Dichloroethene	ND	5.0	89	91	2.2	90	92	2.2	70 - 130	30
1,1-Dichloropropene	ND	5.0	91	92	1.1	101	102	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	92	93	1.1	101	108	6.7	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	94	95	1.1	92	98	6.3	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	89	92	3.3	100	104	3.9	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	89	91	2.2	104	106	1.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	106	104	1.9	105	109	3.7	70 - 130	30
1,2-Dibromoethane	ND	5.0	97	98	1.0	103	103	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	93	95	2.1	102	104	1.9	70 - 130	30
1,2-Dichloroethane	ND	5.0	89	91	2.2	99	99	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	94	97	3.1	103	104	1.0	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	92	95	3.2	103	105	1.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	91	92	1.1	101	103	2.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	93	95	2.1	98	100	2.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	88	90	2.2	99	102	3.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	83	90	8.1	88	93	5.5	70 - 130	30
2-Chlorotoluene	ND	5.0	96	97	1.0	104	106	1.9	70 - 130	30
2-Hexanone	ND	25	89	91	2.2	91	96	5.3	70 - 130	30
2-Isopropyltoluene	ND	5.0	97	100	3.0	107	109	1.9	70 - 130	30
4-Chlorotoluene	ND	5.0	90	93	3.3	102	104	1.9	70 - 130	30
4-Methyl-2-pentanone	ND	25	93	95	2.1	99	102	3.0	70 - 130	30
Acetone	ND	10	76	77	1.3	77	80	3.8	70 - 130	30
Acrylonitrile	ND	5.0	91	92	1.1	93	97	4.2	70 - 130	30

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzene	ND	1.0	94	95	1.1	103	104	1.0	70 - 130	30	
Bromobenzene	ND	5.0	97	98	1.0	104	107	2.8	70 - 130	30	
Bromochloromethane	ND	5.0	93	93	0.0	96	100	4.1	70 - 130	30	
Bromodichloromethane	ND	5.0	97	97	0.0	100	101	1.0	70 - 130	30	
Bromoform	ND	5.0	93	95	2.1	93	96	3.2	70 - 130	30	
Bromomethane	ND	5.0	73	66	10.1	56	63	11.8	70 - 130	30	l,m
Carbon Disulfide	ND	5.0	89	91	2.2	87	89	2.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	92	94	2.2	98	100	2.0	70 - 130	30	
Chlorobenzene	ND	5.0	93	96	3.2	101	104	2.9	70 - 130	30	
Chloroethane	ND	5.0	79	83	4.9	23	23	0.0	70 - 130	30	m
Chloroform	ND	5.0	87	88	1.1	92	94	2.2	70 - 130	30	
Chloromethane	ND	5.0	70	73	4.2	95	94	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	96	98	2.1	101	104	2.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	100	101	1.0	102	104	1.9	70 - 130	30	
Dibromochloromethane	ND	3.0	99	100	1.0	98	100	2.0	70 - 130	30	
Dibromomethane	ND	5.0	97	95	2.1	101	104	2.9	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	62	63	1.6	88	90	2.2	70 - 130	30	l
Ethylbenzene	ND	1.0	96	100	4.1	104	107	2.8	70 - 130	30	
Hexachlorobutadiene	ND	5.0	97	99	2.0	111	115	3.5	70 - 130	30	
Isopropylbenzene	ND	1.0	98	100	2.0	106	111	4.6	70 - 130	30	
m&p-Xylene	ND	2.0	94	97	3.1	105	108	2.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	85	85	0.0	89	96	7.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	88	87	1.1	90	93	3.3	70 - 130	30	
Methylene chloride	ND	5.0	83	84	1.2	83	84	1.2	70 - 130	30	
Naphthalene	ND	5.0	101	103	2.0	107	113	5.5	70 - 130	30	
n-Butylbenzene	ND	1.0	88	91	3.4	103	105	1.9	70 - 130	30	
n-Propylbenzene	ND	1.0	90	93	3.3	106	109	2.8	70 - 130	30	
o-Xylene	ND	2.0	99	102	3.0	108	110	1.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	94	98	4.2	109	111	1.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	95	98	3.1	104	106	1.9	70 - 130	30	
Styrene	ND	5.0	97	99	2.0	106	109	2.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	97	100	3.0	107	110	2.8	70 - 130	30	
Tetrachloroethene	ND	5.0	96	100	4.1	110	113	2.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	84	84	0.0	85	89	4.6	70 - 130	30	
Toluene	ND	1.0	96	98	2.1	107	108	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	89	92	3.3	93	96	3.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	100	100	0.0	97	100	3.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	96	96	0.0	89	94	5.5	70 - 130	30	
Trichloroethene	ND	5.0	99	101	2.0	108	108	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	78	81	3.8	27	29	7.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	84	88	4.7	92	92	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	83	84	1.2	101	104	2.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	102	101	1.0	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	95	%	101	99	2.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	104	%	99	98	1.0	99	98	1.0	70 - 130	30	
% Toluene-d8	91	%	102	99	3.0	102	100	2.0	70 - 130	30	

Comment:

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

QA/QC Batch 306320 (ug/kg), QC Sample No: BJ09555 (BJ09555, BJ09556, BJ09561)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	96	100	4.1	95	102	7.1	30 - 130	30	
Acenaphthene	ND	230	88	88	0.0	79	86	8.5	30 - 130	30	

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Acenaphthylene	ND	230	95	93	2.1	91	100	9.4	30 - 130	30	
Anthracene	ND	230	103	98	5.0	96	102	6.1	30 - 130	30	
Benz(a)anthracene	ND	230	91	87	4.5	110	117	6.2	30 - 130	30	
Benzo(a)pyrene	ND	230	101	96	5.1	97	94	3.1	30 - 130	30	
Benzo(b)fluoranthene	ND	230	97	87	10.9	98	136	32.5	30 - 130	30	m,r
Benzo(ghi)perylene	ND	230	106	105	0.9	92	55	50.3	30 - 130	30	r
Benzo(k)fluoranthene	ND	230	105	90	15.4	70	50	33.3	30 - 130	30	r
Chrysene	ND	230	106	100	5.8	111	98	12.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	103	101	2.0	85	62	31.3	30 - 130	30	r
Fluoranthene	ND	230	112	101	10.3	NC	NC	NC	30 - 130	30	
Fluorene	ND	230	91	90	1.1	88	95	7.7	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	103	100	3.0	91	63	36.4	30 - 130	30	r
Naphthalene	ND	230	83	84	1.2	78	84	7.4	30 - 130	30	
Phenanthrene	ND	230	101	98	3.0	NC	NC	NC	30 - 130	30	
Pyrene	ND	230	120	104	14.3	NC	NC	NC	30 - 130	30	
% 2-Fluorobiphenyl	62	%	88	86	2.3	75	78	3.9	30 - 130	30	
% Nitrobenzene-d5	56	%	82	79	3.7	77	77	0.0	30 - 130	30	
% Terphenyl-d14	66	%	117	100	15.7	75	81	7.7	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 306326 (ug/L), QC Sample No: BJ09558 (BJ09558)

Semivolatiles - Water

1,2,4,5-Tetrachlorobenzene	ND	0.50	78	79	1.3				30 - 130	20	
1,2,4-Trichlorobenzene	ND	3.5	63	65	3.1				30 - 130	20	
1,2-Dichlorobenzene	ND	1.0	60	60	0.0				30 - 130	20	
1,2-Diphenylhydrazine	ND	1.6	98	95	3.1				30 - 130	20	
1,3-Dichlorobenzene	ND	1.0	59	59	0.0				30 - 130	20	
1,4-Dichlorobenzene	ND	1.0	60	59	1.7				30 - 130	20	
2,4,5-Trichlorophenol	ND	1.0	99	102	3.0				30 - 130	20	
2,4,6-Trichlorophenol	ND	1.0	93	97	4.2				30 - 130	20	
2,4-Dichlorophenol	ND	1.0	77	78	1.3				30 - 130	20	
2,4-Dimethylphenol	ND	1.0	75	75	0.0				30 - 130	20	
2,4-Dinitrophenol	ND	1.0	107	113	5.5				30 - 130	20	
2,4-Dinitrotoluene	ND	3.5	103	103	0.0				30 - 130	20	
2,6-Dinitrotoluene	ND	3.5	98	99	1.0				30 - 130	20	
2-Chloronaphthalene	ND	3.5	85	87	2.3				30 - 130	20	
2-Chlorophenol	ND	1.0	63	62	1.6				30 - 130	20	
2-Methylnaphthalene	ND	0.05	81	81	0.0				30 - 130	20	
2-Methylphenol (o-cresol)	ND	1.0	74	73	1.4				30 - 130	20	
2-Nitroaniline	ND	3.5	121	126	4.0				30 - 130	20	
2-Nitrophenol	ND	1.0	73	71	2.8				30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	1.0	80	78	2.5				30 - 130	20	
3,3'-Dichlorobenzidine	ND	5.0	71	74	4.1				30 - 130	20	
3-Nitroaniline	ND	5.0	99	101	2.0				30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	1.0	111	115	3.5				30 - 130	20	
4-Bromophenyl phenyl ether	ND	3.5	101	96	5.1				30 - 130	20	
4-Chloro-3-methylphenol	ND	1.0	94	92	2.2				30 - 130	20	
4-Chloroaniline	ND	3.5	80	80	0.0				30 - 130	20	
4-Chlorophenyl phenyl ether	ND	1.0	101	100	1.0				30 - 130	20	
4-Nitroaniline	ND	5.0	100	98	2.0				30 - 130	20	
4-Nitrophenol	ND	1.0	100	102	2.0				30 - 130	20	

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Acenaphthene	ND	0.05	94	95	1.1				30 - 130	20
Acenaphthylene	ND	0.02	86	86	0.0				30 - 130	20
Acetophenone	ND	5.0	82	79	3.7				30 - 130	20
Aniline	ND	3.5	77	75	2.6				30 - 130	20
Anthracene	ND	0.02	99	98	1.0				30 - 130	20
Benz(a)anthracene	ND	0.02	98	98	0.0				30 - 130	20
Benzidine	ND	4.5	148	176	17.3				30 - 130	20
Benzo(a)pyrene	ND	0.02	93	91	2.2				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	95	101	6.1				30 - 130	20
Benzo(ghi)perylene	ND	0.02	90	99	9.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	100	110	9.5				30 - 130	20
Benzoic acid	ND	10	65	72	10.2				30 - 130	20
Benzyl butyl phthalate	ND	3.5	108	96	11.8				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	78	77	1.3				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	60	60	0.0				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	1.0	62	60	3.3				30 - 130	20
Bis(2-ethylhexyl)phthalate	0.06	0.05	122	109	11.3				30 - 130	20
Carbazole	ND	5.0	113	116	2.6				30 - 130	20
Chrysene	ND	0.02	105	106	0.9				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	97	110	12.6				30 - 130	20
Dibenzofuran	ND	3.5	97	98	1.0				30 - 130	20
Diethyl phthalate	ND	3.5	105	102	2.9				30 - 130	20
Dimethylphthalate	ND	3.5	96	97	1.0				30 - 130	20
Di-n-butylphthalate	ND	3.5	112	106	5.5				30 - 130	20
Di-n-octylphthalate	ND	3.5	105	101	3.9				30 - 130	20
Fluoranthene	ND	0.04	105	110	4.7				30 - 130	20
Fluorene	ND	0.05	100	100	0.0				30 - 130	20
Hexachlorobenzene	ND	0.02	100	94	6.2				30 - 130	20
Hexachlorobutadiene	ND	0.05	62	64	3.2				30 - 130	20
Hexachlorocyclopentadiene	ND	3.5	42	43	2.4				30 - 130	20
Hexachloroethane	ND	0.05	61	59	3.3				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	95	107	11.9				30 - 130	20
Isophorone	ND	3.5	77	76	1.3				30 - 130	20
Naphthalene	ND	0.05	70	69	1.4				30 - 130	20
Nitrobenzene	ND	0.05	77	74	4.0				30 - 130	20
N-Nitrosodimethylamine	ND	0.05	58	59	1.7				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	88	82	7.1				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	93	93	0.0				30 - 130	20
Pentachloronitrobenzene	ND	0.10	103	98	5.0				30 - 130	20
Pentachlorophenol	ND	0.30	116	113	2.6				30 - 130	20
Phenanthrene	ND	0.05	99	97	2.0				30 - 130	20
Phenol	ND	1.0	60	59	1.7				30 - 130	20
Pyrene	ND	0.02	102	111	8.5				30 - 130	20
Pyridine	ND	0.50	49	50	2.0				30 - 130	20
% 2,4,6-Tribromophenol	93	%	110	98	11.5				15 - 110	20
% 2-Fluorobiphenyl	58	%	83	85	2.4				30 - 130	20
% 2-Fluorophenol	46	%	47	47	0.0				30 - 130	20
% Nitrobenzene-d5	59	%	74	71	4.1				30 - 130	20
% Phenol-d5	58	%	61	60	1.7				30 - 130	20
% Terphenyl-d14	99	%	109	119	8.8				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.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 307120 (ug/kg), QC Sample No: BJ12718 (BJ09555, BJ09556 (50X))											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	84	88	4.7	99	99	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	82	87	5.9	104	101	2.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	84	87	3.5	100	97	3.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	81	85	4.8	107	103	3.8	70 - 130	30	
1,1-Dichloroethane	ND	5.0	80	83	3.7	100	95	5.1	70 - 130	30	
1,1-Dichloroethene	ND	5.0	87	89	2.3	100	98	2.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	83	85	2.4	106	101	4.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	85	84	1.2	107	107	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	85	86	1.2	103	100	3.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	83	83	0.0	108	104	3.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	81	83	2.4	106	100	5.8	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	84	84	0.0	113	116	2.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	86	88	2.3	107	105	1.9	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	84	85	1.2	105	103	1.9	70 - 130	30	
1,2-Dichloroethane	ND	5.0	84	89	5.8	112	107	4.6	70 - 130	30	
1,2-Dichloropropane	ND	5.0	81	84	3.6	102	99	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	84	85	1.2	101	98	3.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	84	86	2.4	104	100	3.9	70 - 130	30	
1,3-Dichloropropane	ND	5.0	81	85	4.8	99	99	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	83	84	1.2	104	100	3.9	70 - 130	30	
2,2-Dichloropropane	ND	5.0	85	87	2.3	99	99	0.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	85	87	2.3	103	99	4.0	70 - 130	30	
2-Hexanone	ND	25	78	85	8.6	112	108	3.6	70 - 130	30	
2-Isopropyltoluene	ND	5.0	89	91	2.2	106	101	4.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	83	85	2.4	102	98	4.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	83	86	3.6	115	113	1.8	70 - 130	30	
Acetone	ND	10	67	72	7.2	80	80	0.0	70 - 130	30	l
Acrylonitrile	ND	5.0	79	86	8.5	105	106	0.9	70 - 130	30	
Benzene	ND	1.0	83	86	3.6	105	99	5.9	70 - 130	30	
Bromobenzene	ND	5.0	86	89	3.4	111	105	5.6	70 - 130	30	
Bromochloromethane	ND	5.0	83	85	2.4	99	99	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	88	92	4.4	106	103	2.9	70 - 130	30	
Bromoform	ND	5.0	84	88	4.7	100	98	2.0	70 - 130	30	
Bromomethane	ND	5.0	78	74	5.3	67	73	8.6	70 - 130	30	m
Carbon Disulfide	ND	5.0	88	91	3.4	96	94	2.1	70 - 130	30	
Carbon tetrachloride	ND	5.0	84	88	4.7	102	100	2.0	70 - 130	30	
Chlorobenzene	ND	5.0	85	87	2.3	101	100	1.0	70 - 130	30	
Chloroethane	ND	5.0	79	80	1.3	29	27	7.1	70 - 130	30	m
Chloroform	ND	5.0	79	83	4.9	98	96	2.1	70 - 130	30	
Chloromethane	ND	5.0	70	75	6.9	101	97	4.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	84	87	3.5	102	99	3.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	87	90	3.4	107	103	3.8	70 - 130	30	
Dibromochloromethane	ND	3.0	91	93	2.2	104	105	1.0	70 - 130	30	
Dibromomethane	ND	5.0	83	86	3.6	108	103	4.7	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	80	80	0.0	105	100	4.9	70 - 130	30	
Ethylbenzene	ND	1.0	86	89	3.4	103	100	3.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	88	88	0.0	113	109	3.6	70 - 130	30	
Isopropylbenzene	ND	1.0	86	89	3.4	106	101	4.8	70 - 130	30	
m&p-Xylene	ND	2.0	85	86	1.2	103	101	2.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	81	84	3.6	113	106	6.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ09553

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Methyl t-butyl ether (MTBE)	ND	1.0	96	89	7.6	105	102	2.9	70 - 130	30	
Methylene chloride	ND	5.0	55	57	3.6	74	73	1.4	70 - 130	30	l
Naphthalene	ND	5.0	86	86	0.0	109	110	0.9	70 - 130	30	
n-Butylbenzene	ND	1.0	83	84	1.2	106	101	4.8	70 - 130	30	
n-Propylbenzene	ND	1.0	80	83	3.7	105	101	3.9	70 - 130	30	
o-Xylene	ND	2.0	87	89	2.3	105	103	1.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	85	87	2.3	107	104	2.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	86	88	2.3	103	99	4.0	70 - 130	30	
Styrene	ND	5.0	87	91	4.5	107	105	1.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	86	89	3.4	106	102	3.8	70 - 130	30	
Tetrachloroethene	ND	5.0	87	91	4.5	114	110	3.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	75	78	3.9	101	102	1.0	70 - 130	30	
Toluene	ND	1.0	83	88	5.8	108	102	5.7	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	85	88	3.5	104	101	2.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	91	91	0.0	109	105	3.7	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	88	92	4.4	102	100	2.0	70 - 130	30	
Trichloroethene	ND	5.0	85	90	5.7	109	104	4.7	70 - 130	30	
Trichlorofluoromethane	ND	5.0	83	86	3.6	30	27	10.5	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	85	84	1.2	105	100	4.9	70 - 130	30	
Vinyl chloride	ND	5.0	84	89	5.8	112	110	1.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	101	101	0.0	103	100	3.0	70 - 130	30	
% Bromofluorobenzene	95	%	99	100	1.0	99	99	0.0	70 - 130	30	
% Dibromofluoromethane	106	%	99	99	0.0	101	100	1.0	70 - 130	30	
% Toluene-d8	91	%	99	100	1.0	102	100	2.0	70 - 130	30	

Comment:

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

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

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

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

Phyllis Shiller, Laboratory Director
May 13, 2015

Sample Criteria Exceedences Report

GBJ09553 - FO-PCB

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ09555	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3900	260	1000	1000	ug/Kg
BJ09555	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4400	260	1000	1000	ug/Kg
BJ09555	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7300	1300	5600	5600	ug/Kg
BJ09555	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6700	1300	4000	4000	ug/Kg
BJ09555	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8100	1300	4000	4000	ug/Kg
BJ09555	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4800	260	1000	1000	ug/Kg
BJ09555	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4800	260	1000	1000	ug/Kg
BJ09555	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3900	260	1000	1000	ug/Kg
BJ09555	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4400	260	1000	1000	ug/Kg
BJ09555	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	660	54	500	500	mg/Kg
BJ09555	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	660	54	500	500	mg/Kg
BJ09556	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	9400	2600	1000	1000	ug/Kg
BJ09556	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6800	2600	1000	1000	ug/Kg
BJ09556	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7100	2600	1000	1000	ug/Kg
BJ09556	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2200	260	1000	1000	ug/Kg
BJ09556	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	19000	2600	5600	5600	ug/Kg
BJ09556	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	27000	2600	4000	4000	ug/Kg
BJ09556	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	22000	2600	4000	4000	ug/Kg
BJ09556	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	6800	2600	1000	1000	ug/Kg
BJ09556	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7100	2600	1000	1000	ug/Kg
BJ09556	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	9400	2600	1000	1000	ug/Kg
BJ09556	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	530	55	500	500	mg/Kg
BJ09556	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	530	55	500	500	mg/Kg
BJ09561	SPLP-CR	SPLP Chromium	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.109	0.010	0.05	0.05	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ09553, BJ09554, BJ09555, BJ09556, BJ09557, BJ09558, BJ09559, BJ09560, BJ09561, BJ09562

Sampling Date(s): 4/29/2015

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, PCB Narration, SVOA Narration, SVOASIM 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, May 13, 2015

Printed Name: Ethan Lee

Position: Project Manager

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SDG I.D.: GBJ09553

BJ09555, BJ09556 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ09561 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

BJ09558 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Antimony, Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ09555, BJ09556, BJ09561 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

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

Instrument: Au-fid84 04/30/15-1 (BJ09555)

Initial Calibration (FID84 - ETPH_413) - 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: 4/30/2015

Instrument: Au-fid84 04/30/15-2 (BJ09555)

Initial Calibration (FID84 - ETPH_413) - 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: 4/30/2015

Instrument: Au-fid84 05/01/15-2 (BJ09555, BJ09556)

Initial Calibration (FID84 - ETPH_413) - 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

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SDG I.D.: GBJ09553

Printed Name Jeff Bucko
Position: Chemist
Date: 5/1/2015

Instrument: Aufid-d1 04/30/15-2 (BJ09558)

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: 4/30/2015

Instrument: Au-xl2 04/29/15-2 (BJ09561, BJ09562)

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: 4/29/2015

QC Comments: QC Batch 306318 04/29/15 (BJ09555, BJ09556, BJ09561, BJ09562)

*The MS/MSD could not be reported due to the prsence of ETPH in the original sample. The LCS was within QA/QC criteria.

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QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306318 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ09121, QA/QC Batch: 306414 ----------

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 04/30/15-1 (BJ09558)

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: 4/30/2015

Instrument: Merlin 05/01/15-1 (BJ09555, BJ09556, BJ09561)

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: 5/1/2015

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QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306533 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ09967, QA/QC Batch: 306369 ----------

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? No.

QC Batch 306317 (Samples: BJ09555, BJ09556, BJ09561) ----

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

Instrument: Arcos 04/29/15-1 (BJ09555, BJ09556, BJ09561)

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: 4/29/2015

Instrument: Arcos 04/30/15-1 (BJ09555, BJ09556, BJ09561)

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.

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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: 4/30/2015

Instrument: Arcos 05/11/15-1 (BJ09561)

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: 5/11/2015

Instrument: Arcos 05/12/15-1 (BJ09561)

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: 5/12/2015

Instrument: Blue 04/29/15-1 (BJ09558)

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: 4/29/2015

Instrument: Blue 04/30/15-1 (BJ09558)

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: 4/30/2015

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QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306317 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ09111, QA/QC Batch: 307421 ----------

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: BJ09692, QA/QC Batch: 306325 ----------

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: Chem05 04/29/15-2 (BJ09555, BJ09556, BJ09561)

Initial Calibration Verification (CHEM05/BN_0415):
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 (CHEM05/0429_28-BN_0415):
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.

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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: 4/29/2015

QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306320 ----------

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: Benzo(b)fluoranthene(136%)

All MS/MSD RPDs were less than 30% with the following exceptions: Benzo(b)fluoranthene(32.5%), Benzo(ghi)perylene(50.3%), Benzo(k)fluoranthene(33.3%), Dibenz(a,h)anthracene(31.3%), Indeno(1,2,3-cd)pyrene(36.4%)

---------- Sample No: BJ09558, QA/QC Batch: 306326 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(148%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzidine(176%)

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.

PCB Narration

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

QC Batch 306182 (Samples: BJ09558): -----

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

Instrument: Au-ecd1 04/30/15-1 (BJ09555, BJ09556, BJ09558, BJ09562)

The initial calibration (PC430AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC427BI) RSD for the compound list was less than 20% except for the following compounds: None.

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SDG I.D.: GBJ09553

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/30/2015

Instrument: Au-ecd5 04/30/15-1 (BJ09555)

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: noneThe initial calibration (PC423AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC423BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:None.

Printed Name Keith Aloisa
Position: Chemist
Date: 4/30/2015

QC Comments: QC Batch 306182 04/28/15 (BJ09558)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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SDG I.D.: GBJ09553

QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306319 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ09237, QA/QC Batch: 306182 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

All LCSD recoveries were within 40 - 140 with the following exceptions: None.

All LCS/LCSD RPDs were less than 20% with the following exceptions: % DCBP (Surrogate Rec)(24.5%)

SVOA Narration

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

QC Batch 306320 (Samples: BJ09555, BJ09556, BJ09561): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Benzo(b)fluoranthene)

The MS/MSD RPD for one or more analytes exceeds the method criteria, therefore there may be variability in the reported result. (Benzo(b)fluoranthene, Benzo(ghi)perylene, Benzo(k)fluoranthene, Dibenz(a,h)anthracene, Indeno(1,2,3-cd)pyrene)

Instrument: Chem05 05/01/15-1 (BJ09555, BJ09556, BJ09558)

Initial Calibration Verification (CHEM05/SV_0501):
95% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (33%), 4,6-Dinitro-2-methylphenol (22%), Benzidine (36%), Pentachlorophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM05/0501_11-SV_0501):
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: Benzidine (-49%)[30%]
The following compounds did not meet maximum % deviations: Benzidine (-49%)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.072)[0.1], Hexachlorobenzene (.089)[0.1]
The following compounds did not meet minimum response factors: None.

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SDG I.D.: GBJ09553

Printed Name Damien Drobinski
Position: Chemist
Date: 5/1/2015

Instrument: Chem05 05/02/15-1 (BJ09558)

Initial Calibration Verification (CHEM05/SV_0501):
95% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (33%), 4,6-Dinitro-2-methylphenol (22%), Benzidine (36%), Pentachlorophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM05/0502_02-SV_0501):
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: Benzidine (-40%)[30%], Pentachlorophenol (33%)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.062)[0.1], Hexachlorobenzene (.091)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/2/2015

Instrument: Chem06 05/04/15-1 (BJ09558)

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/SV_0427):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (25%), 4,6-Dinitro-2-methylphenol (37%), 4-Nitrophenol (25%), Benzidine (26%), Pentachlorophenol (35%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0504_02-SV_0427):
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: Benzidine (-199%)[30%]
The following compounds did not meet maximum % deviations: Benzidine (-199%)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.065)[0.1], Hexachlorobenzene (.070)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/4/2015

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SDG I.D.: GBJ09553

QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306320 ----------

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: Benzo(b)fluoranthene(136%)

All MS/MSD RPDs were less than 30% with the following exceptions: Benzo(b)fluoranthene(32.5%), Benzo(ghi)perylene(50.3%), Benzo(k)fluoranthene(33.3%), Dibenz(a,h)anthracene(31.3%), Indeno(1,2,3-cd)pyrene(36.4%)

---------- Sample No: BJ09558, QA/QC Batch: 306326 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(148%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzidine(176%)

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.

SVOASIM Narration

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

QC Batch 306326 (Samples: BJ09558): -----

A trace amount of an analyte was found in blank but were not reported in the sample(s), therefore no bias is suspected. (Bis(2-ethylhexyl)phthalate)

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. (Benzidine)

Instrument: Chem04 05/01/15-1 (BJ09558)

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 Verification (CHEM04/SIM_0428):
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.

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Continuing Calibration Verification (CHEM04/0501_02-SIM_0428):
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 (.064)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/1/2015

Instrument: Chem07 05/02/15-1 (BJ09558)

Initial Calibration Verification (CHEM07/SIM_0424):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4,6-Trichlorophenol (22%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM07/0502_02-SIM_0424):
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 (.056)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/2/2015

QC (Site Specific)

---------- Sample No: BJ09558, QA/QC Batch: 306326 ----------

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ09553

VOA Narration

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

QC Batch 307120 (Samples: BJ09555, BJ09556) ----

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. All other QC recoveries are acceptable, therefore no significant bias is suspected. (Acetone)

The LCS and/or LCSD recoveries for one or more analytes are below the method criteria. A low bias is possible. (Methylene chloride)

QC Batch 306675 (Samples: BJ09553, BJ09554, BJ09556): -----

The QC recoveries for one or more analytes are below the method criteria. A low bias is possible. (Bromomethane)

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (Dichlorodifluoromethane)

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 possible. (Chloroethane, Trichlorofluoromethane)

Instrument: Chem17 04/30/15-1 (BJ09558)

Initial Calibration Verification (CHEM17/VOA_0430):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromoform (22%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM17/0430S09-VOA_0430):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Raman Makol
Position: Chemist
Date: 4/30/2015

Instrument: Chem18 05/01/15-2 (BJ09553, BJ09554, BJ09555, BJ09556)

Initial Calibration Verification (CHEM18/voa5g_0430):
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 (CHEM18/0501M35-voa5g_0430):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Bromomethane (31%)[30%]
The following compounds did not meet maximum % deviations: None.

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May 13, 2015

SDG I.D.: GBJ09553

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

Printed Name Jane Li
Position: Chemist
Date: 5/1/2015

Instrument: Chem18 05/06/15-2 (BJ09555, BJ09556)

Initial Calibration Verification (CHEM18/VT-M0505):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (30%), Methylene Chloride (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0506M31-VT-M0505):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Methylene Chloride (31%)[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 Jane Li
Position: Chemist
Date: 5/6/2015

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ09553

QC (Site Specific)

---------- Sample No: BJ09555, QA/QC Batch: 306675 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(62%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(66%), Dichlorodifluoromethane(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: Bromomethane(56%), Chloroethane(23%), Trichlorofluoromethane(27%)

All MSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(63%), Chloroethane(23%), Trichlorofluoromethane(29%)

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: BJ09503, QA/QC Batch: 306567 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

---------- Sample No: BJ12718, QA/QC Batch: 307120 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(67%), Methylene chloride(55%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Methylene chloride(57%)

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

VOA TCL Narration

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

Instrument: Chem18 05/01/15-2 (BJ09555)

Initial Calibration Verification (CHEM18/TCL5gD_0430):
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 (CHEM18/0501M35-TCL5gD_0430):
97% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Bromomethane (31%)[20%], Dichlorodifluoromethane (29%)[20%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 13, 2015

SDG I.D.: GBJ09553

Printed Name Jane Li
Position: Chemist
Date: 5/1/2015

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

LOC WIC IP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 32784

Turnaround
- [ ] 24-Hour* [ ] 72-Hour* [ ] Other _____ (days)
- [ ] 48-Hour* [X] Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anacoil	Rockville, CT	20014541.P20	Phoenix

Report To: Kevin Vanderveer F+O
Invoice To: same
P.O. No.: Quote # FO
Sampler's Signature: _____ Date: 4/29/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank, X2 = Equipment Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH (8270)	PAHs (8270)	PCBs (Soxhlet)	RCRA 8 metals*	Cu+Ni, Zn	pH	Aluminum	Soil VOA Vial, A=methanol	Soil VOA Vial, A=water	Glass Soil Container (8) oz	Na(SO4)2	Other:	Other:	Water VOA Vial, ☐ As is, X=HCl	Glass Amber (1000) ml, X=HCl, ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml ☐ H2SO4	Plastic - H2SO4, ☐ 250 ml ☐ 500 ml	Plastic - HNO3, 250 ml X=Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
49					1251150429-49	X	4/29/15	0815	X								1							09553				
50					-50	X		0816	X									2						09554				
51					-51	S		0840	X	X	X	X	X	X			1	2	1					09555				* MS-MSD
52					-52	↓		0850	X	X	X	X	X	X			1	2	1					09556				Dup-
53					-53	↓		0910							X				3					09557				MS/MSD
54					09558 -54	X2		0915	X	X	[redacted]	X	X	X	X	X						3	4			1	E		+ Antimony + SVOCs
55					-55	S		0940							X				1				09559					
56					-56	↓		0950							X				1				09560					Hold all extra soil for additional analyses
57					-57	↓		1130		X	X		X		X	X			1				09561					
58					-58	↓	↓	1200		X		X							1				09562					

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	4/29/15	15:23
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt [X] QA/QC ☐ Other _____
1 Duplicates 3 Blanks (Item Nos: Blanks: 49, 50, 54)
Reporting and Detection Limit Requirements: [X] RCP Deliverables ☐ MCP CAM Cert.
GA PMC/Res DEC of CT RSRs
Additional Comments: Duplicate parameters: VOCs, ETPH, PAHs, PCBs, metals, Cu, Ni, Zn

Per Kevin Vanderveer OK to run MS/MSD on #50 instead of #52 (LB) Total SVOC on Blank.

PHOENIX
Environmental Laboratories, Inc.

Monday, July 06, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ32135 - BJ32136, BJ32138 - BJ32140, BJ32142 - BJ32144, BJ32146 - BJ32147, BJ32149, BJ32151 - BJ32162

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 1:14 pm, Jul 06, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 01, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ32135 - BJ32136, BJ32138 - BJ32140, BJ32142 - BJ32144, BJ32146 - BJ32147, BJ32149, BJ32151 - BJ32162

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.

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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

REVIEWED
By pbibeau at 1:14 pm, Jul 06, 2015
DMS

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 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	9:10
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32135

Project ID: ANOCOIL
Client ID: 1251150616-001

SB-29 (0-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Arsenic	1.6	0.7	mg/Kg	1	06/29/15	LK	SW6010C
Barium	47.3	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Chromium	12.3	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Copper	14.1	0.34	mg/kg	1	06/29/15	LK	SW6010C
Mercury	0.05	0.03	mg/Kg	1	06/29/15	RS	SW7471B
Nickel	7.58	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Lead	40.0	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/29/15	LK	SW6010C
Zinc	36.9	0.34	mg/Kg	1	06/29/15	LK	SW6010C
Percent Solid	93		%		06/26/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/26/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/26/15	BJ/V	SW3545A
Mercury Digestion	Completed				06/29/15	I/I	SW7471B
Total Metals Digest	Completed				06/26/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	140	54	mg/Kg	1	06/29/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	97		%	1	06/29/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-001

SB-29 (0-4')

Phoenix I.D.: BJ32135

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	06/27/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	85		%	1	06/27/15	DD	30 - 130 %
% Nitrobenzene-d5	77		%	1	06/27/15	DD	30 - 130 %
% Terphenyl-d14	86		%	1	06/27/15	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	9:15
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32136

Project ID: ANOCOIL
Client ID: 1251150616-002

SB-29 (13-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Arsenic	3.8	0.8	mg/Kg	1	06/18/15	EK	SW6010C
Barium	138	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	20.6	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Copper	57.9	0.39	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.28	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	9.87	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Lead	168	3.9	mg/Kg	10	06/19/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/18/15	LK	SW6010C
Zinc	102	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	90		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/16/15	BC/V	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	84	54	mg/Kg	1	06/18/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/18/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	102		%	1	06/18/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-002

SB-29 (13-15')

Phoenix I.D.: BJ32136

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	460	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(a)pyrene	490	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	470	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(ghi)perylene	260	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	460	250	ug/Kg	1	06/17/15	DD	SW8270D
Chrysene	550	250	ug/Kg	1	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Fluoranthene	860	250	ug/Kg	1	06/17/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	280	250	ug/Kg	1	06/17/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Phenanthrene	670	250	ug/Kg	1	06/17/15	DD	SW8270D
Pyrene	830	250	ug/Kg	1	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	86		%	1	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	95		%	1	06/17/15	DD	30 - 130 %
% Terphenyl-d14	81		%	1	06/17/15	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	10:00
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32138

Project ID: ANOCOIL
Client ID: 1251150616-004

MW-07 (0-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	2.4	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	50.3	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	13.4	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Copper	12.1	0.38	mg/kg	1	06/23/15	EK	SW6010C
Mercury	0.07	0.03	mg/Kg	1	06/23/15	RS	SW7471B
Nickel	8.54	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Lead	38.9	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/23/15	EK	SW6010C
Zinc	36.2	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	92		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	BC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	54	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	06/23/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-004

MW-07 (0-4')

Phoenix I.D.: BJ32138

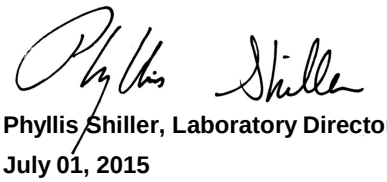
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	260	250	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(a)pyrene	280	250	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(b)fluoranthene	330	250	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(ghi)perylene	330	250	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Fluoranthene	450	250	ug/Kg	1	06/22/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	310	250	ug/Kg	1	06/22/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/22/15	DD	SW8270D
Phenanthrene	260	250	ug/Kg	1	06/22/15	DD	SW8270D
Pyrene	420	250	ug/Kg	1	06/22/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	83		%	1	06/22/15	DD	30 - 130 %
% Nitrobenzene-d5	88		%	1	06/22/15	DD	30 - 130 %
% Terphenyl-d14	88		%	1	06/22/15	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
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	10:05
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32139

Project ID: ANOCOIL
Client ID: 1251150616-005

MW-07 (12.5-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	6.5	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	92.7	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	1.65	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	45.5	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Copper	35.4	0.41	mg/kg	1	06/23/15	EK	SW6010C
Mercury	0.54	0.03	mg/Kg	1	06/23/15	RS	SW7471B
Nickel	9.51	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Lead	93.0	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/23/15	EK	SW6010C
Zinc	116	0.41	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	83		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	BC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/16/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	370	60	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	06/23/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-005

MW-07 (12.5-15')

Phoenix I.D.: BJ32139

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	50	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Bromochloromethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
m&p-Xylene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	06/25/15	JLI	SW8260
Methylene chloride	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-005

MW-07 (12.5-15')

Phoenix I.D.: BJ32139

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
o-Xylene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Styrene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	06/25/15	JLI	SW8260
Trichloroethene	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	4.2	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	101		%	1	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	1000	280	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthylene	1400	280	ug/Kg	1	06/22/15	DD	SW8270D
Anthracene	850	280	ug/Kg	1	06/22/15	DD	SW8270D
Benz(a)anthracene	2100	280	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(a)pyrene	2000	280	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(b)fluoranthene	2300	280	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(ghi)perylene	880	280	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(k)fluoranthene	740	280	ug/Kg	1	06/22/15	DD	SW8270D
Chrysene	2100	280	ug/Kg	1	06/22/15	DD	SW8270D
Dibenz(a,h)anthracene	320	280	ug/Kg	1	06/22/15	DD	SW8270D
Fluoranthene	3100	280	ug/Kg	1	06/22/15	DD	SW8270D
Fluorene	380	280	ug/Kg	1	06/22/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1000	280	ug/Kg	1	06/22/15	DD	SW8270D
Naphthalene	1500	280	ug/Kg	1	06/22/15	DD	SW8270D
Phenanthrene	2600	280	ug/Kg	1	06/22/15	DD	SW8270D
Pyrene	4100	280	ug/Kg	1	06/22/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	06/22/15	DD	30 - 130 %
% Nitrobenzene-d5	85		%	1	06/22/15	DD	30 - 130 %
% Terphenyl-d14	90		%	1	06/22/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-005

MW-07 (12.5-15')

Phoenix I.D.: BJ32139

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

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

Comments:

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

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

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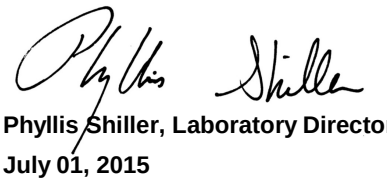

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	10:10
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32140

Project ID: ANOCOIL
Client ID: 1251150616-006

MW-07 (16-19.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	64		%		06/22/15	I	SW846-%Solid
Field Extraction	Completed				06/16/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	240	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	29000	28000	ug/Kg	5000	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	6600	400	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	2000	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	640	400	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-006

MW-07 (16-19.5')

Phoenix I.D.: BJ32140

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	2000	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	2400	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	240	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	29000	28000	ug/Kg	5000	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	25000	24000	ug/Kg	5000	06/25/15	JLI	SW8260
m&p-Xylene	16000	400	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	2400	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	800	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	550000	40000	ug/Kg	5000	06/25/15	JLI	SW8260
n-Butylbenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	3200	400	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	13000	400	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	18000	2000	ug/Kg	250	06/25/15	JLI	SW8260
sec-Butylbenzene	490	400	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	800	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	760	400	ug/Kg	50	06/25/15	JLI	SW8260
Total Xylenes	29000	400	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	800	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	400	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	50	06/25/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-006

MW-07 (16-19.5')

Phoenix I.D.: BJ32140

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	96		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	87		%	50	06/25/15	JLI	70 - 130 %

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

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.
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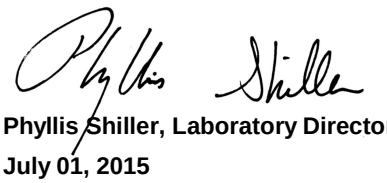

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	11:00
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32142

Project ID: ANOCOIL
Client ID: 1251150616-008

SB-30 (0.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Arsenic	0.9	0.7	mg/Kg	1	06/29/15	LK	SW6010C
Barium	29.7	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Cadmium	< 0.33	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Chromium	8.17	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Copper	11.2	0.33	mg/kg	1	06/29/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/29/15	RS	SW7471B
Nickel	5.29	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Lead	3.01	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	06/29/15	LK	SW6010C
Zinc	12.1	0.33	mg/Kg	1	06/29/15	LK	SW6010C
Percent Solid	93		%		06/26/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/26/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/26/15	BJ/V	SW3545A
Mercury Digestion	Completed				06/29/15	I/I	SW7471B
Total Metals Digest	Completed				06/26/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	06/27/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/27/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	103		%	1	06/27/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-008

SB-30 (0.5-4')

Phoenix I.D.: BJ32142

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/27/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	06/27/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	06/27/15	DD	30 - 130 %
% Terphenyl-d14	83		%	1	06/27/15	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.

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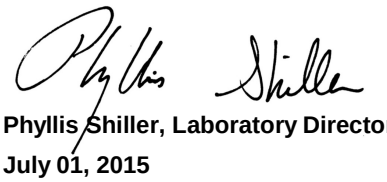

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	11:05
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32143

Project ID: ANOCOIL
Client ID: 1251150616-009

SB-30 (12.5-14.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Arsenic	8.7	0.7	mg/Kg	1	06/18/15	EK	SW6010C
Barium	110	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	0.94	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	25.5	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Copper	52.9	0.35	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.23	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	14.6	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Lead	190	3.5	mg/Kg	10	06/19/15	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/18/15	LK	SW6010C
Zinc	106	0.35	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	87		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/16/15	BC/V	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	56	mg/Kg	1	06/17/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/17/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	06/17/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-009

SB-30 (12.5-14.5')

Phoenix I.D.: BJ32143

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	650	270	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(a)pyrene	650	270	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	590	270	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(ghi)perylene	350	270	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	600	270	ug/Kg	1	06/17/15	DD	SW8270D
Chrysene	760	270	ug/Kg	1	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Fluoranthene	1000	270	ug/Kg	1	06/17/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	370	270	ug/Kg	1	06/17/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/17/15	DD	SW8270D
Phenanthrene	700	270	ug/Kg	1	06/17/15	DD	SW8270D
Pyrene	1000	270	ug/Kg	1	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	91		%	1	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	101		%	1	06/17/15	DD	30 - 130 %
% Terphenyl-d14	82		%	1	06/17/15	DD	30 - 130 %

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

Comments:

DUPLICATE INCLUDED

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	11:10
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32144

Project ID: ANOCOIL
Client ID: 1251150616-010

SB-30 (12.5-14.5') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.41	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Arsenic	4.7	0.8	mg/Kg	1	06/18/15	EK	SW6010C
Barium	97.3	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	0.52	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	31.6	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Copper	49.3	0.41	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.25	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	11.4	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Lead	183	4.1	mg/Kg	10	06/19/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/18/15	LK	SW6010C
Zinc	88.9	0.41	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	86		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/16/15	BC/V	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	57	mg/Kg	1	06/17/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/17/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	1	06/17/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-010

SB-30 (12.5-14.5') Field Duplicate

Phoenix I.D.: BJ32144

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	800	260	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(a)pyrene	800	260	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	940	260	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(ghi)perylene	510	260	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	360	260	ug/Kg	1	06/17/15	DD	SW8270D
Chrysene	900	260	ug/Kg	1	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Fluoranthene	1000	260	ug/Kg	1	06/17/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	450	260	ug/Kg	1	06/17/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/17/15	DD	SW8270D
Phenanthrene	1100	260	ug/Kg	1	06/17/15	DD	SW8270D
Pyrene	920	260	ug/Kg	1	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	73		%	1	06/17/15	DD	30 - 130 %
% Terphenyl-d14	49		%	1	06/17/15	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.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	11:40
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32146

Project ID: ANOCOIL
Client ID: 1251150616-012

SB-31 (0-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	1.4	0.7	mg/Kg	1	06/23/15	LK	SW6010C
Barium	35.4	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	9.26	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Copper	11.9	0.35	mg/kg	1	06/23/15	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/23/15	RS	SW7471B
Nickel	6.52	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Lead	29.8	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/23/15	EK	SW6010C
Zinc	29.3	0.35	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	88		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/25/15	JJ/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	06/26/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/26/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	06/26/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthylene	370	260	ug/Kg	1	06/23/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-012

SB-31 (0-4')

Phoenix I.D.: BJ32146

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	1600	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(a)pyrene	1700	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	2100	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(ghi)perylene	1000	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	790	260	ug/Kg	1	06/23/15	DD	SW8270D
Chrysene	1400	260	ug/Kg	1	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Fluoranthene	2300	260	ug/Kg	1	06/23/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	260	ug/Kg	1	06/23/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Phenanthrene	450	260	ug/Kg	1	06/23/15	DD	SW8270D
Pyrene	2300	260	ug/Kg	1	06/23/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	90		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	95		%	1	06/23/15	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	11:45
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32147

Project ID: ANOCOIL
Client ID: 1251150616-013 SB-31 (5-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	7.8	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	84.6	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	0.80	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	26.0	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Copper	107	0.40	mg/kg	1	06/23/15	EK	SW6010C
Mercury	0.22	0.03	mg/Kg	1	06/23/15	RS	SW7471B
Nickel	15.3	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Lead	273	4.0	mg/Kg	10	06/23/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/23/15	EK	SW6010C
Zinc	121	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	86		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	BC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	57	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	93		%	1	06/23/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	370	260	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthylene	370	260	ug/Kg	1	06/23/15	DD	SW8270D
Anthracene	710	260	ug/Kg	1	06/23/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-013

SB-31 (5-8')

Phoenix I.D.: BJ32147

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	1600	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(a)pyrene	1300	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	1700	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(ghi)perylene	660	260	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	560	260	ug/Kg	1	06/23/15	DD	SW8270D
Chrysene	1500	260	ug/Kg	1	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/23/15	DD	SW8270D
Fluoranthene	3200	260	ug/Kg	1	06/23/15	DD	SW8270D
Fluorene	430	260	ug/Kg	1	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	770	260	ug/Kg	1	06/23/15	DD	SW8270D
Naphthalene	780	260	ug/Kg	1	06/23/15	DD	SW8270D
Phenanthrene	2900	260	ug/Kg	1	06/23/15	DD	SW8270D
Pyrene	2900	260	ug/Kg	1	06/23/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	80		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	93		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	97		%	1	06/23/15	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	13:30
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32149

Project ID: ANOCOIL
Client ID: 1251150616-015

MW-08 (0.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Arsenic	2.2	0.8	mg/Kg	1	06/18/15	EK	SW6010C
Barium	33.6	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	11.1	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Copper	12.0	0.39	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.09	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	7.10	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Lead	53.3	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/18/15	EK	SW6010C
Zinc	35.2	0.39	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	88		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/16/15	BC/V	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	56	mg/Kg	1	06/17/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/17/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	06/17/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Acenaphthene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Acenaphthylene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Anthracene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-015

MW-08 (0.5-4')

Phoenix I.D.: BJ32149

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(a)pyrene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Chrysene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Fluoranthene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Fluorene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Naphthalene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Phenanthrene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Pyrene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	2	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	96		%	2	06/17/15	DD	30 - 130 %
% Terphenyl-d14	78		%	2	06/17/15	DD	30 - 130 %

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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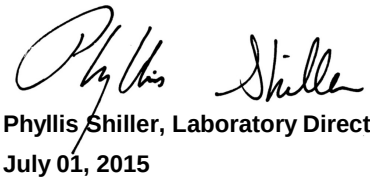

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	14:30
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32151

Project ID: ANOCOIL
Client ID: 1251150616-017

MW-09 (5-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/18/15	LK	SW6010C
Arsenic	1.2	0.7	mg/Kg	1	06/18/15	LK	SW6010C
Barium	29.5	0.36	mg/Kg	1	06/18/15	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	06/18/15	LK	SW6010C
Chromium	13.2	0.36	mg/Kg	1	06/18/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Lead	46.9	0.36	mg/Kg	1	06/18/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/18/15	LK	SW6010C
Percent Solid	93		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
Client MS/MSD	Completed				06/17/15		
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Fluoranthene	270	250	ug/Kg	1	06/17/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-017

MW-09 (5-8')

Phoenix I.D.: BJ32151

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/17/15	DD	SW8270D
Pyrene	270	250	ug/Kg	1	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	06/17/15	DD	30 - 130 %
% Terphenyl-d14	71		%	1	06/17/15	DD	30 - 130 %

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

Comments:

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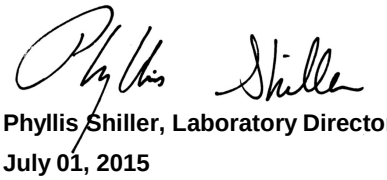

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	14:40
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32152

Project ID: ANOCOIL
Client ID: 1251150616-018

MW-09 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	75.0	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	81		%		06/16/15	I	SW846-%Solid
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B

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

Comments:

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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	15:05
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32153

Project ID: ANOCOIL
Client ID: 1251150616-019

SB-32 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Aluminum	16000	63	mg/Kg	10	06/19/15	EK	SW6010C
Arsenic	6.3	0.8	mg/Kg	1	06/18/15	EK	SW6010C
Barium	30.5	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.42	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	23.5	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Copper	10.6	0.42	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.11	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	8.70	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Lead	67.8	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	06/18/15	EK	SW6010C
Zinc	26.3	0.42	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	78		%		06/16/15	I	SW846-%Solid
pH - Soil	5.35	0.10	pH Units	1	06/16/15 20:10	DH/KDB	SW9045
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B

Project ID: ANOCOIL
Client ID: 1251150616-019

SB-32 (0-0.5')

Phoenix I.D.: BJ32153

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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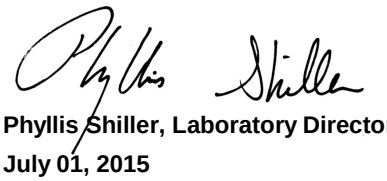

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	14:50
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32154

Project ID: ANOCOIL
Client ID: 1251150616-020 SB-33 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.54	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Aluminum	11800	81	mg/Kg	10	06/19/15	EK	SW6010C
Arsenic	28.3	1.1	mg/Kg	1	06/18/15	EK	SW6010C
Barium	37.6	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.54	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	48.8	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Copper	23.9	0.54	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.43	0.04	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	12.4	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Lead	245	5.4	mg/Kg	10	06/19/15	EK	SW6010C
Selenium	< 2.2	2.2	mg/Kg	1	06/18/15	EK	SW6010C
Zinc	33.8	0.54	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	66		%		06/16/15	I	SW846-%Solid
pH - Soil	4.83	0.10	pH Units	1	06/16/15 20:10	DH/KDB	SW9045
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B

Project ID: ANOCOIL
Client ID: 1251150616-020

SB-33 (0-0.5')

Phoenix I.D.: BJ32154

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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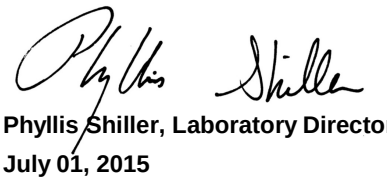

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	14:55
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32155

Project ID: ANOCOIL
Client ID: 1251150616-021 SB-34 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Aluminum	15600	66	mg/Kg	10	06/19/15	EK	SW6010C
Arsenic	6.8	0.9	mg/Kg	1	06/18/15	EK	SW6010C
Barium	27.6	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.44	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	21.6	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Copper	10.2	0.44	mg/kg	1	06/18/15	EK	SW6010C
Mercury	1.09	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	10.2	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Lead	54.0	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	06/18/15	EK	SW6010C
Zinc	26.0	0.44	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	78		%		06/16/15	I	SW846-%Solid
pH - Soil	4.60	0.10	pH Units	1	06/16/15 20:10	DH/KDB	SW9045
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B

Project ID: ANOCOIL
Client ID: 1251150616-021

SB-34 (0-0.5')

Phoenix I.D.: BJ32155

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

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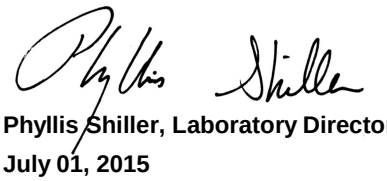

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	15:00
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32156

Project ID: ANOCOIL
Client ID: 1251150616-022

SB-35 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Aluminum	16000	68	mg/Kg	10	06/19/15	EK	SW6010C
Arsenic	10.1	0.9	mg/Kg	1	06/18/15	EK	SW6010C
Barium	27.2	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.45	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	22.9	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Copper	15.2	0.45	mg/kg	1	06/18/15	EK	SW6010C
Mercury	0.11	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Nickel	10.3	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Lead	68.7	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	06/18/15	EK	SW6010C
Zinc	27.9	0.45	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	75		%		06/16/15	I	SW846-%Solid
pH - Soil	4.67	0.10	pH Units	1	06/16/15 20:10	DH/KDB	SW9045
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B

Project ID: ANOCOIL
Client ID: 1251150616-022

SB-35 (0-0.5')

Phoenix I.D.: BJ32156

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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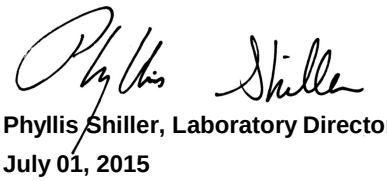

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	15:30
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32157

Project ID: ANOCOIL
Client ID: 1251150616-023

SB-36 (5-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/18/15	EK	SW6010C
Arsenic	3.2	0.8	mg/Kg	1	06/18/15	EK	SW6010C
Barium	50.1	0.38	mg/Kg	1	06/18/15	EK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	06/18/15	EK	SW6010C
Chromium	18.5	0.38	mg/Kg	1	06/18/15	EK	SW6010C
Mercury	0.08	0.03	mg/Kg	1	06/17/15	RS	SW7471B
Lead	114	0.38	mg/Kg	1	06/18/15	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/18/15	EK	SW6010C
SPLP Lead	0.013	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Selenium	< 0.020	0.020	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Percent Solid	88		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/17/15	U/U	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Acenaphthene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Acenaphthylene	2200	520	ug/Kg	2	06/17/15	DD	SW8270D
Anthracene	3100	520	ug/Kg	2	06/17/15	DD	SW8270D
Benz(a)anthracene	7600	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(a)pyrene	7200	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	8100	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(ghi)perylene	3800	520	ug/Kg	2	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	6200	520	ug/Kg	2	06/17/15	DD	SW8270D
Chrysene	9000	2600	ug/Kg	10	06/18/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150616-023

SB-36 (5-8')

Phoenix I.D.: BJ32157

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Dibenz(a,h)anthracene	850	520	ug/Kg	2	06/17/15	DD	SW8270D
Fluoranthene	22000	2600	ug/Kg	10	06/18/15	DD	SW8270D
Fluorene	2000	520	ug/Kg	2	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	4000	520	ug/Kg	2	06/17/15	DD	SW8270D
Naphthalene	ND	520	ug/Kg	2	06/17/15	DD	SW8270D
Phenanthrene	22000	2600	ug/Kg	10	06/18/15	DD	SW8270D
Pyrene	18000	2600	ug/Kg	10	06/18/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	82		%	2	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	95		%	2	06/17/15	DD	30 - 130 %
% Terphenyl-d14	66		%	2	06/17/15	DD	30 - 130 %

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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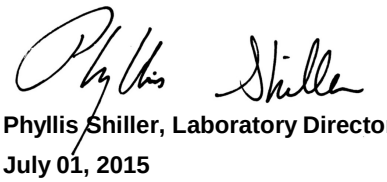

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	15:40
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32158

Project ID: ANOCOIL
Client ID: 1251150616-024 SB-36 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	131	0.40	mg/Kg	1	06/18/15	EK	SW6010C
Percent Solid	89		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/26/15	BJ/VH	SW3545A
Total Metals Digest	Completed				06/16/15	N/AG/I	SW3050B
Polynuclear Aromatic HC							
2-Methylnaphthalene	670	260	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthylene	1900	260	ug/Kg	1	06/27/15	DD	SW8270D
Anthracene	3900	260	ug/Kg	1	06/27/15	DD	SW8270D
Benz(a)anthracene	10000	1300	ug/Kg	5	06/29/15	DD	SW8270D
Benzo(a)pyrene	7900	1300	ug/Kg	5	06/29/15	DD	SW8270D
Benzo(b)fluoranthene	11000	1300	ug/Kg	5	06/29/15	DD	SW8270D
Benzo(ghi)perylene	3600	260	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(k)fluoranthene	3600	1300	ug/Kg	5	06/29/15	DD	SW8270D
Chrysene	9900	1300	ug/Kg	5	06/29/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/27/15	DD	SW8270D
Fluoranthene	20000	1300	ug/Kg	5	06/29/15	DD	SW8270D
Fluorene	2100	260	ug/Kg	1	06/27/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	4500	1300	ug/Kg	5	06/29/15	DD	SW8270D
Naphthalene	1800	260	ug/Kg	1	06/27/15	DD	SW8270D
Phenanthrene	19000	1300	ug/Kg	5	06/29/15	DD	SW8270D
Pyrene	17000	1300	ug/Kg	5	06/29/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	84		%	1	06/27/15	DD	30 - 130 %
% Nitrobenzene-d5	83		%	1	06/27/15	DD	30 - 130 %
% Terphenyl-d14	87		%	1	06/27/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-024

SB-36 (8-10')

Phoenix I.D.: BJ32158

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

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

Comments:

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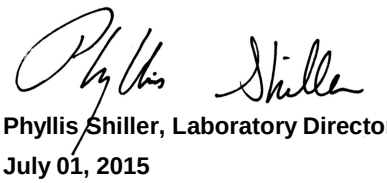

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	16:20
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32159

Project ID: ANOCOIL
Client ID: 1251150616-025

SB-37 (5-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	94		%		06/16/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/16/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/16/15	BC/V	SW3545A
Field Extraction	Completed				06/16/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	06/17/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/17/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/17/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-025

SB-37 (5-10')

Phoenix I.D.: BJ32159

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-025

SB-37 (5-10')

Phoenix I.D.: BJ32159

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	06/17/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	06/17/15	DD	30 - 130 %
% Nitrobenzene-d5	79		%	1	06/17/15	DD	30 - 130 %
% Terphenyl-d14	72		%	1	06/17/15	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
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	16:30
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32160

Project ID: ANOCOIL
Client ID: 1251150616-026

SB-37 (10-11')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		06/22/15	I	SW846-%Solid
Field Extraction	Completed				06/16/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	150	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	4200	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	340	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	1200	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	250	250	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-026

SB-37 (10-11')

Phoenix I.D.: BJ32160

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	1200	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	1500	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	150	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	480	250	ug/Kg	50	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	1600	250	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	920	250	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	1500	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	490	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	5800	4900	ug/Kg	1000	06/25/15	JLI	SW8260
n-Butylbenzene	390	250	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	550	250	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	950	250	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	2200	250	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	260	250	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	490	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Total Xylenes	1870	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	490	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	50	06/25/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-026

SB-37 (10-11')

Phoenix I.D.: BJ32160

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	96		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	95		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	86		%	50	06/25/15	JLI	70 - 130 %

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

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	16:35
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32161

Project ID: ANOCOIL
Client ID: 1251150616-027 Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/16/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/19/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-027

Trip Blank - high

Phoenix I.D.: BJ32161

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/19/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/19/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/19/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/19/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/19/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/19/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/19/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/19/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	50	06/19/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	06/19/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-027

Trip Blank - high

Phoenix I.D.: BJ32161

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	94		%	50	06/19/15	JLI	70 - 130 %
% Toluene-d8	91		%	50	06/19/15	JLI	70 - 130 %

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

Comments:

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

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

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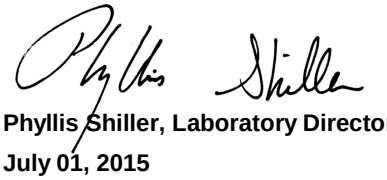

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/16/15	16:36
Location Code:	F&O	Received by:	LB	06/16/15	17:22
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ32135
Phoenix ID: BJ32162

Project ID: ANOCOIL
Client ID: 1251150616-028

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/16/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/19/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150616-028

Trip Blank - low

Phoenix I.D.: BJ32162

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/19/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/19/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/19/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/19/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/19/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/19/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/19/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/19/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	06/19/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/19/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150616-028

Trip Blank - low

Phoenix I.D.: BJ32162

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	06/19/15	JLI	70 - 130 %
% Toluene-d8	91		%	1	06/19/15	JLI	70 - 130 %

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

Comments:

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

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

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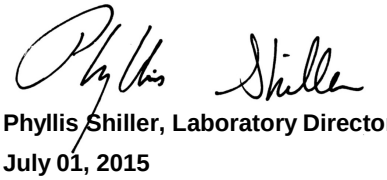

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
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QA/QC Report

July 01, 2015

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 312112 (mg/kg), QC Sample No: BJ32135 (BJ32135, BJ32142)														
ICP Metals - Soil														
Arsenic	BRL	0.67	1.6	1.22	NC	93.9	94.9	1.1	88.3	88.0	0.3	75 - 125	30	
Barium	BRL	0.33	47.3	40.0	16.7	103	113	9.3	96.2	103	6.8	75 - 125	30	
Cadmium	BRL	0.33	<0.34	<0.37	NC	91.6	89.3	2.5	86.7	86.6	0.1	75 - 125	30	
Chromium	BRL	0.33	12.3	8.83	32.8	102	102	0.0	93.6	93.4	0.2	75 - 125	30	r
Copper	BRL	0.33	14.1	12.3	13.6	99.5	101	1.5	98.7	97.8	0.9	75 - 125	30	
Lead	BRL	0.33	40.0	33.8	16.8	91.6	97.5	6.2	83.9	84.1	0.2	75 - 125	30	
Nickel	BRL	0.33	7.58	5.11	38.9	97.5	95.5	2.1	92.0	92.0	0.0	75 - 125	30	r
Selenium	BRL	1.3	<1.4	<1.5	NC	81.2	82.2	1.2	80.4	80.1	0.4	75 - 125	30	
Silver	BRL	0.33	<0.34	<0.37	NC	95.7	98.5	2.9	93.7	93.8	0.1	75 - 125	30	
Zinc	BRL	0.33	36.9	29.6	22.0	92.2	97.5	5.6	82.2	82.9	0.8	75 - 125	30	
QA/QC Batch 311039 (mg/kg), QC Sample No: BJ32151 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32152, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157, BJ32158)														
ICP Metals - Soil														
Aluminum	BRL	4.7	744	837	11.8	113	115	1.8	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.63	1.2	1.35	NC	99.3	99.2	0.1	96.1	95.1	1.0	75 - 125	30	
Barium	BRL	0.31	29.5	25.6	14.2	99.0	101	2.0	115	106	8.1	75 - 125	30	
Cadmium	BRL	0.31	<0.36	<0.36	NC	104	103	1.0	104	103	1.0	75 - 125	30	
Chromium	BRL	0.31	13.2	12.8	3.10	106	105	0.9	103	101	2.0	75 - 125	30	
Copper	BRL	0.31	1.91	1.03	NC	100	99.6	0.4	102	99.8	2.2	75 - 125	30	
Lead	BRL	0.31	46.9	36.5	24.9	103	104	1.0	105	102	2.9	75 - 125	30	
Nickel	BRL	0.31	0.85	0.66	NC	107	105	1.9	105	103	1.9	75 - 125	30	
Selenium	BRL	1.3	<1.4	<1.5	NC	89.6	89.5	0.1	88.8	91.3	2.8	75 - 125	30	
Silver	BRL	0.31	<0.36	<0.36	NC	99.3	96.0	3.4	98.2	96.8	1.4	75 - 125	30	
Zinc	BRL	0.31	3.77	3.56	5.70	97.9	98.0	0.1	99.7	97.1	2.6	75 - 125	30	
QA/QC Batch 311074 (mg/kg), QC Sample No: BJ32151 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157)														
Mercury - Soil	BRL	0.06	<0.03	0.04	NC	100	118	16.5	112	130	14.9	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 311639 (mg/kg), QC Sample No: BJ33430 (BJ32138, BJ32139, BJ32146, BJ32147)														
Mercury - Soil	BRL	0.06	0.06	0.04	NC	117	121	3.4	116	119	2.6	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 311589 (mg/kg), QC Sample No: BJ34469 (BJ32138, BJ32139, BJ32146, BJ32147)														
ICP Metals - Soil														
Arsenic	BRL	0.67	5.5	5.43	1.30	104	99.4	4.5	93.8	92.4	1.5	75 - 125	30	
Barium	BRL	0.33	183	189	3.20	108	102	5.7	>130	106	NC	75 - 125	30	m
Cadmium	BRL	0.33	<0.38	<0.39	NC	100	95.5	4.6	90.8	89.3	1.7	75 - 125	30	
Chromium	BRL	0.33	62.5	62.8	0.50	106	104	1.9	94.1	96.1	2.1	75 - 125	30	
Copper	BRL	0.33	29.6	31.5	6.20	105	99.8	5.1	101	103	2.0	75 - 125	30	

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Lead	BRL	0.33	22.9	27.9	19.7	101	95.7	5.4	92.9	90.2	2.9	75 - 125	30
Nickel	BRL	0.33	25.6	26.8	4.60	101	97.8	3.2	91.1	92.5	1.5	75 - 125	30
Selenium	BRL	1.3	<1.5	<1.6	NC	87.2	84.2	3.5	85.4	84.0	1.7	75 - 125	30
Silver	BRL	0.33	<0.38	<0.39	NC	102	96.5	5.5	96.8	94.5	2.4	75 - 125	30
Zinc	BRL	0.33	61.9	67.0	7.90	98.2	93.8	4.6	94.0	93.2	0.9	75 - 125	30
QA/QC Batch 311649 (mg/L), QC Sample No: BJ34469 (BJ32157)													
ICP Metals - SPLP Extraction													
Lead	BRL	0.010	<0.010	<0.010	NC	100	100	0.0	99.1	99.1	0.0	75 - 125	20
Selenium	BRL	0.020	<0.020	<0.020	NC	101	101	0.0	99.8	99.3	0.5	75 - 125	20
QA/QC Batch 312182 (mg/kg), QC Sample No: BJ38140 (BJ32135, BJ32142)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	94.6	91.4	3.4	96.5	95.2	1.4	70 - 130	30

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.

Environmental Laboratories, Inc.
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QA/QC Report

July 01, 2015

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 311069 (PH), QC Sample No: BJ31869 (BJ32153, BJ32154, BJ32155, BJ32156)													
pH - Soil			5.82	5.93	1.90	100						85 - 115	20

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QA/QC Report

July 01, 2015

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 311553 (ug/kg), QC Sample No: BJ32088 (BJ32161 (50X) , BJ32162)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	118	115	2.6	109	117	7.1	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	114	116	1.7	108	115	6.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	116	112	3.5	106	110	3.7	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	110	114	3.6	109	110	0.9	70 - 130	30	
1,1-Dichloroethane	ND	5.0	111	113	1.8	104	110	5.6	70 - 130	30	
1,1-Dichloroethene	ND	5.0	129	128	0.8	108	118	8.8	70 - 130	30	
1,1-Dichloropropene	ND	5.0	121	120	0.8	113	118	4.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	119	118	0.8	112	114	1.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	118	114	3.4	111	114	2.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	123	119	3.3	114	123	7.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	112	110	1.8	106	111	4.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	117	117	0.0	110	112	1.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	118	116	1.7	111	118	6.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	119	117	1.7	114	118	3.4	70 - 130	30	
1,2-Dichloroethane	ND	5.0	117	121	3.4	114	119	4.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	113	113	0.0	108	110	1.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	114	112	1.8	108	113	4.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	118	117	0.9	112	118	5.2	70 - 130	30	
1,3-Dichloropropane	ND	5.0	111	111	0.0	105	115	9.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	120	118	1.7	113	119	5.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	124	125	0.8	109	111	1.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	118	118	0.0	113	117	3.5	70 - 130	30	
2-Hexanone	ND	25	99	92	7.3	95	95	0.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	119	117	1.7	114	119	4.3	70 - 130	30	
4-Chlorotoluene	ND	5.0	123	118	4.1	116	121	4.2	70 - 130	30	
4-Methyl-2-pentanone	ND	25	107	106	0.9	101	102	1.0	70 - 130	30	
Acetone	ND	10	88	86	2.3	82	78	5.0	70 - 130	30	
Acrylonitrile	ND	5.0	105	109	3.7	100	103	3.0	70 - 130	30	
Benzene	ND	1.0	116	115	0.9	109	114	4.5	70 - 130	30	
Bromobenzene	ND	5.0	125	124	0.8	116	121	4.2	70 - 130	30	
Bromochloromethane	ND	5.0	115	112	2.6	107	111	3.7	70 - 130	30	
Bromodichloromethane	ND	5.0	125	125	0.0	113	118	4.3	70 - 130	30	
Bromoform	ND	5.0	119	118	0.8	97	113	15.2	70 - 130	30	
Bromomethane	ND	5.0	135	133	1.5	98	114	15.1	70 - 130	30	I
Carbon Disulfide	ND	5.0	138	139	0.7	116	122	5.0	70 - 130	30	I
Carbon tetrachloride	ND	5.0	120	122	1.7	110	118	7.0	70 - 130	30	
Chlorobenzene	ND	5.0	116	117	0.9	111	120	7.8	70 - 130	30	
Chloroethane	ND	5.0	123	121	1.6	36	36	0.0	70 - 130	30	m
Chloroform	ND	5.0	109	109	0.0	103	107	3.8	70 - 130	30	
Chloromethane	ND	5.0	112	111	0.9	98	104	5.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	114	118	3.4	106	111	4.6	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	5.0	124	126	1.6	117	121	3.4	70 - 130	30	
Dibromochloromethane	ND	3.0	129	132	2.3	116	128	9.8	70 - 130	30	l
Dibromomethane	ND	5.0	113	115	1.8	108	111	2.7	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	157	156	0.6	140	146	4.2	70 - 130	30	l,m
Ethylbenzene	ND	1.0	119	117	1.7	114	121	6.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	123	117	5.0	107	116	8.1	70 - 130	30	
Isopropylbenzene	ND	1.0	116	112	3.5	109	113	3.6	70 - 130	30	
m&p-Xylene	ND	2.0	113	113	0.0	108	117	8.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	95	90	5.4	89	89	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	118	120	1.7	112	116	3.5	70 - 130	30	
Methylene chloride	ND	5.0	103	106	2.9	98	103	5.0	70 - 130	30	
Naphthalene	ND	5.0	115	114	0.9	106	115	8.1	70 - 130	30	
n-Butylbenzene	ND	1.0	118	115	2.6	110	117	6.2	70 - 130	30	
n-Propylbenzene	ND	1.0	112	108	3.6	105	112	6.5	70 - 130	30	
o-Xylene	ND	2.0	118	115	2.6	109	120	9.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	117	115	1.7	111	116	4.4	70 - 130	30	
sec-Butylbenzene	ND	1.0	114	111	2.7	109	113	3.6	70 - 130	30	
Styrene	ND	5.0	116	115	0.9	110	119	7.9	70 - 130	30	
tert-Butylbenzene	ND	1.0	116	113	2.6	109	115	5.4	70 - 130	30	
Tetrachloroethene	ND	5.0	128	129	0.8	124	128	3.2	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	99	99	0.0	96	94	2.1	70 - 130	30	
Toluene	ND	1.0	120	119	0.8	114	119	4.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	124	122	1.6	113	120	6.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	132	133	0.8	121	128	5.6	70 - 130	30	l
trans-1,4-dichloro-2-butene	ND	5.0	126	126	0.0	110	117	6.2	70 - 130	30	
Trichloroethene	ND	5.0	122	121	0.8	115	121	5.1	70 - 130	30	
Trichlorofluoromethane	ND	5.0	128	128	0.0	27	29	7.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	129	123	4.8	109	111	1.8	70 - 130	30	
Vinyl chloride	ND	5.0	134	136	1.5	127	136	6.8	70 - 130	30	l,m
% 1,2-dichlorobenzene-d4	94	%	102	101	1.0	102	104	1.9	70 - 130	30	
% Bromofluorobenzene	96	%	98	99	1.0	101	101	0.0	70 - 130	30	
% Dibromofluoromethane	95	%	96	97	1.0	101	96	5.1	70 - 130	30	
% Toluene-d8	90	%	102	101	1.0	102	102	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 311030 (ug/kg), QC Sample No: BJ32151 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32157, BJ32159)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	83	84	1.2	85	85	0.0	30 - 130	30	
Acenaphthene	ND	230	86	85	1.2	90	87	3.4	30 - 130	30	
Acenaphthylene	ND	230	86	84	2.4	92	92	0.0	30 - 130	30	
Anthracene	ND	230	92	92	0.0	95	96	1.0	30 - 130	30	
Benz(a)anthracene	ND	230	93	94	1.1	102	101	1.0	30 - 130	30	
Benzo(a)pyrene	ND	230	94	93	1.1	99	98	1.0	30 - 130	30	
Benzo(b)fluoranthene	ND	230	92	93	1.1	97	98	1.0	30 - 130	30	
Benzo(ghi)perylene	ND	230	92	93	1.1	94	94	0.0	30 - 130	30	
Benzo(k)fluoranthene	ND	230	95	93	2.1	98	93	5.2	30 - 130	30	
Chrysene	ND	230	96	97	1.0	103	103	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	94	95	1.1	94	94	0.0	30 - 130	30	
Fluoranthene	ND	230	91	92	1.1	103	101	2.0	30 - 130	30	
Fluorene	ND	230	87	87	0.0	90	93	3.3	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	95	95	0.0	99	98	1.0	30 - 130	30	
Naphthalene	ND	230	76	77	1.3	79	79	0.0	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Phenanthrene	ND	230	91	91	0.0	103	102	1.0	30 - 130	30
Pyrene	ND	230	91	92	1.1	105	104	1.0	30 - 130	30
% 2-Fluorobiphenyl	77	%	85	83	2.4	85	83	2.4	30 - 130	30
% Nitrobenzene-d5	70	%	85	85	0.0	83	85	2.4	30 - 130	30
% Terphenyl-d14	90	%	89	92	3.3	82	82	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 311031 (mg/Kg), QC Sample No: BJ32159 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32159)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	63	57	10.0	62	53	15.7	30 - 130	30
% n-Pentacosane	56	%	75	65	14.3	68	60	12.5	50 - 150	30

QA/QC Batch 311571 (mg/Kg), QC Sample No: BJ33430 (BJ32138, BJ32139, BJ32146, BJ32147)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	73	73	0.0	60	64	6.5	30 - 130	30
% n-Pentacosane	76	%	86	83	3.6	65	70	7.4	50 - 150	30

QA/QC Batch 311570 (ug/kg), QC Sample No: BJ33430 (BJ32138, BJ32139, BJ32146, BJ32147)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	95	96	1.0	79	93	16.3	30 - 130	30
Acenaphthene	ND	230	88	89	1.1	69	85	20.8	30 - 130	30
Acenaphthylene	ND	230	86	89	3.4	71	84	16.8	30 - 130	30
Anthracene	ND	230	94	95	1.1	75	88	16.0	30 - 130	30
Benz(a)anthracene	ND	230	95	98	3.1	77	89	14.5	30 - 130	30
Benzo(a)pyrene	ND	230	95	97	2.1	74	87	16.1	30 - 130	30
Benzo(b)fluoranthene	ND	230	94	98	4.2	76	88	14.6	30 - 130	30
Benzo(ghi)perylene	ND	230	91	94	3.2	57	67	16.1	30 - 130	30
Benzo(k)fluoranthene	ND	230	95	95	0.0	72	84	15.4	30 - 130	30
Chrysene	ND	230	96	98	2.1	74	89	18.4	30 - 130	30
Dibenz(a,h)anthracene	ND	230	92	94	2.2	60	69	14.0	30 - 130	30
Fluoranthene	ND	230	97	97	0.0	81	94	14.9	30 - 130	30
Fluorene	ND	230	92	95	3.2	73	89	19.8	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	96	99	3.1	62	72	14.9	30 - 130	30
Naphthalene	ND	230	90	90	0.0	76	89	15.8	30 - 130	30
Phenanthrene	ND	230	93	94	1.1	75	87	14.8	30 - 130	30
Pyrene	ND	230	97	95	2.1	81	93	13.8	30 - 130	30
% 2-Fluorobiphenyl	81	%	84	85	1.2	69	78	12.2	30 - 130	30
% Nitrobenzene-d5	75	%	86	86	0.0	74	88	17.3	30 - 130	30
% Terphenyl-d14	89	%	91	92	1.1	74	84	12.7	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 311915 (ug/kg), QC Sample No: BJ34751 (BJ32140 (50X, 250X, 5000X) , BJ32160 (50X, 1000X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	107	110	2.8	108	109	0.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	112	116	3.5	114	116	1.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	106	108	1.9	103	103	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	105	106	0.9	108	104	3.8	70 - 130	30
1,1-Dichloroethane	ND	5.0	112	111	0.9	112	111	0.9	70 - 130	30
1,1-Dichloroethene	ND	5.0	120	125	4.1	111	115	3.5	70 - 130	30
1,1-Dichloropropene	ND	5.0	104	105	1.0	109	111	1.8	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	99	99	0.0	94	95	1.1	70 - 130	30

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichloropropane	ND	5.0	111	116	4.4	115	113	1.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	92	95	3.2	91	90	1.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	98	102	4.0	94	99	5.2	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	101	105	3.9	104	100	3.9	70 - 130	30
1,2-Dibromoethane	ND	5.0	108	111	2.7	108	108	0.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	105	106	0.9	103	104	1.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	107	107	0.0	107	107	0.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	108	107	0.9	109	110	0.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	106	2.9	105	106	0.9	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	101	102	1.0	100	102	2.0	70 - 130	30
1,3-Dichloropropane	ND	5.0	104	106	1.9	103	105	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	102	104	1.9	103	103	0.0	70 - 130	30
2,2-Dichloropropane	ND	5.0	109	110	0.9	111	111	0.0	70 - 130	30
2-Chlorotoluene	ND	5.0	104	107	2.8	106	108	1.9	70 - 130	30
2-Hexanone	ND	25	91	97	6.4	94	99	5.2	70 - 130	30
2-Isopropyltoluene	ND	5.0	106	109	2.8	108	108	0.0	70 - 130	30
4-Chlorotoluene	ND	5.0	103	106	2.9	103	104	1.0	70 - 130	30
4-Methyl-2-pentanone	ND	25	98	98	0.0	100	100	0.0	70 - 130	30
Acetone	ND	10	88	97	9.7	114	108	5.4	70 - 130	30
Acrylonitrile	ND	5.0	106	108	1.9	108	103	4.7	70 - 130	30
Benzene	ND	1.0	107	107	0.0	106	108	1.9	70 - 130	30
Bromobenzene	ND	5.0	106	109	2.8	108	107	0.9	70 - 130	30
Bromochloromethane	ND	5.0	112	115	2.6	110	110	0.0	70 - 130	30
Bromodichloromethane	ND	5.0	113	113	0.0	107	112	4.6	70 - 130	30
Bromoform	ND	5.0	105	103	1.9	96	101	5.1	70 - 130	30
Bromomethane	ND	5.0	112	104	7.4	122	116	5.0	70 - 130	30
Carbon Disulfide	ND	5.0	121	121	0.0	110	110	0.0	70 - 130	30
Carbon tetrachloride	ND	5.0	113	114	0.9	115	116	0.9	70 - 130	30
Chlorobenzene	ND	5.0	105	108	2.8	106	109	2.8	70 - 130	30
Chloroethane	ND	5.0	116	115	0.9	119	117	1.7	70 - 130	30
Chloroform	ND	5.0	109	109	0.0	109	109	0.0	70 - 130	30
Chloromethane	ND	5.0	96	95	1.0	92	92	0.0	70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	106	116	9.0	110	109	0.9	70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	115	116	0.9	109	112	2.7	70 - 130	30
Dibromochloromethane	ND	3.0	117	119	1.7	111	113	1.8	70 - 130	30
Dibromomethane	ND	5.0	107	110	2.8	107	110	2.8	70 - 130	30
Dichlorodifluoromethane	ND	5.0	109	110	0.9	88	87	1.1	70 - 130	30
Ethylbenzene	ND	1.0	106	110	3.7	108	109	0.9	70 - 130	30
Hexachlorobutadiene	ND	5.0	105	106	0.9	104	107	2.8	70 - 130	30
Isopropylbenzene	ND	1.0	107	106	0.9	111	111	0.0	70 - 130	30
m&p-Xylene	ND	2.0	103	105	1.9	102	103	1.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	98	96	2.1	102	97	5.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	125	116	7.5	107	108	0.9	70 - 130	30
Methylene chloride	ND	5.0	105	105	0.0	106	103	2.9	70 - 130	30
Naphthalene	ND	5.0	103	103	0.0	95	96	1.0	70 - 130	30
n-Butylbenzene	ND	1.0	100	103	3.0	104	102	1.9	70 - 130	30
n-Propylbenzene	ND	1.0	100	103	3.0	109	110	0.9	70 - 130	30
o-Xylene	ND	2.0	106	108	1.9	105	108	2.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	103	105	1.9	106	106	0.0	70 - 130	30
sec-Butylbenzene	ND	1.0	104	106	1.9	104	106	1.9	70 - 130	30
Styrene	ND	5.0	106	110	3.7	107	107	0.0	70 - 130	30
tert-Butylbenzene	ND	1.0	106	108	1.9	108	110	1.8	70 - 130	30
Tetrachloroethene	ND	5.0	110	110	0.0	114	113	0.9	70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrahydrofuran (THF)	ND	5.0	104	104	0.0	101	97	4.0	70 - 130	30	
Toluene	ND	1.0	111	111	0.0	113	115	1.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	115	115	0.0	109	112	2.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	119	119	0.0	109	113	3.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	118	119	0.8	110	108	1.8	70 - 130	30	
Trichloroethene	ND	5.0	113	112	0.9	114	113	0.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	111	112	0.9	118	116	1.7	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	117	117	0.0	113	113	0.0	70 - 130	30	
Vinyl chloride	ND	5.0	116	116	0.0	103	101	2.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	105	101	3.9	102	102	0.0	70 - 130	30	
% Bromofluorobenzene	96	%	99	99	0.0	99	98	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	102	101	1.0	100	100	0.0	70 - 130	30	
% Toluene-d8	91	%	101	101	0.0	103	103	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 311944 (ug/kg), QC Sample No: BJ34778 (BJ32139, BJ32159)

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	99	99	0.0	94	101	7.2	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	100	2.0	97	102	5.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	93	99	6.3	102	109	6.6	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	98	100	2.0	98	101	3.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	103	104	1.0	100	106	5.8	70 - 130	30	
1,1-Dichloroethene	ND	5.0	111	109	1.8	103	111	7.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	103	102	1.0	98	106	7.8	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	86	89	3.4	95	104	9.0	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	90	98	8.5	98	103	5.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	81	83	2.4	95	104	9.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	93	93	0.0	95	103	8.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	81	97	18.0	105	106	0.9	70 - 130	30	
1,2-Dibromoethane	ND	5.0	95	97	2.1	96	101	5.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	92	93	1.1	96	104	8.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	95	98	3.1	92	96	4.3	70 - 130	30	
1,2-Dichloropropane	ND	5.0	103	106	2.9	103	107	3.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	99	99	0.0	100	108	7.7	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	90	92	2.2	97	104	7.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	98	99	1.0	96	104	8.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	88	89	1.1	95	101	6.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	98	97	1.0	95	101	6.1	70 - 130	30	
2-Chlorotoluene	ND	5.0	97	98	1.0	102	108	5.7	70 - 130	30	
2-Hexanone	ND	25	79	89	11.9	86	94	8.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	103	0.0	103	112	8.4	70 - 130	30	
4-Chlorotoluene	ND	5.0	93	93	0.0	100	104	3.9	70 - 130	30	
4-Methyl-2-pentanone	ND	25	89	94	5.5	94	100	6.2	70 - 130	30	
Acetone	ND	10	75	79	5.2	77	75	2.6	70 - 130	30	
Acrylonitrile	ND	5.0	90	100	10.5	102	107	4.8	70 - 130	30	
Benzene	ND	1.0	105	106	0.9	103	108	4.7	70 - 130	30	
Bromobenzene	ND	5.0	99	98	1.0	98	107	8.8	70 - 130	30	
Bromochloromethane	ND	5.0	101	105	3.9	101	107	5.8	70 - 130	30	
Bromodichloromethane	ND	5.0	106	106	0.0	97	103	6.0	70 - 130	30	
Bromoform	ND	5.0	92	95	3.2	85	95	11.1	70 - 130	30	
Bromomethane	ND	5.0	96	106	9.9	47	81	53.1	70 - 130	30	m,r
Carbon Disulfide	ND	5.0	108	108	0.0	101	107	5.8	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbon tetrachloride	ND	5.0	101	99	2.0	90	97	7.5	70 - 130	30	
Chlorobenzene	ND	5.0	99	97	2.0	99	105	5.9	70 - 130	30	
Chloroethane	ND	5.0	99	103	4.0	28	29	3.5	70 - 130	30	m
Chloroform	ND	5.0	101	100	1.0	96	101	5.1	70 - 130	30	
Chloromethane	ND	5.0	81	87	7.1	83	93	11.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	110	105	4.7	105	110	4.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	105	106	0.9	103	110	6.6	70 - 130	30	
Dibromochloromethane	ND	3.0	101	104	2.9	93	102	9.2	70 - 130	30	
Dibromomethane	ND	5.0	97	99	2.0	94	99	5.2	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	94	94	0.0	90	97	7.5	70 - 130	30	
Ethylbenzene	ND	1.0	102	101	1.0	101	108	6.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	89	93	4.4	94	106	12.0	70 - 130	30	
Isopropylbenzene	ND	1.0	101	103	2.0	103	108	4.7	70 - 130	30	
m&p-Xylene	ND	2.0	100	99	1.0	99	107	7.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	83	87	4.7	89	98	9.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	106	110	3.7	105	113	7.3	70 - 130	30	
Methylene chloride	ND	5.0	98	97	1.0	95	100	5.1	70 - 130	30	
Naphthalene	ND	5.0	93	99	6.3	104	113	8.3	70 - 130	30	
n-Butylbenzene	ND	1.0	91	92	1.1	99	107	7.8	70 - 130	30	
n-Propylbenzene	ND	1.0	95	93	2.1	96	104	8.0	70 - 130	30	
o-Xylene	ND	2.0	103	102	1.0	104	110	5.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	98	0.0	101	110	8.5	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	104	1.0	104	112	7.4	70 - 130	30	
Styrene	ND	5.0	100	99	1.0	101	107	5.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	102	0.0	100	109	8.6	70 - 130	30	
Tetrachloroethene	ND	5.0	100	101	1.0	100	105	4.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	85	96	12.2	100	104	3.9	70 - 130	30	
Toluene	ND	1.0	103	103	0.0	101	107	5.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	110	111	0.9	103	122	16.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	99	102	3.0	99	105	5.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	91	98	7.4	99	106	6.8	70 - 130	30	
Trichloroethene	ND	5.0	106	105	0.9	101	105	3.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	94	94	0.0	22	23	4.4	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	104	102	1.9	98	103	5.0	70 - 130	30	
Vinyl chloride	ND	5.0	107	106	0.9	104	117	11.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	98	99	1.0	102	103	1.0	70 - 130	30	
% Bromofluorobenzene	94	%	99	97	2.0	99	100	1.0	70 - 130	30	
% Dibromofluoromethane	92	%	97	99	2.0	96	104	8.0	70 - 130	30	
% Toluene-d8	99	%	102	102	0.0	100	101	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 311975 (ug/kg), QC Sample No: BJ37180 (BJ32135, BJ32142, BJ32158)

Polynuclear Aromatic HC - Soil

2-Methylnaphthalene	ND	230	66	72	8.7	78	80	2.5	30 - 130	30	
Acenaphthene	ND	230	67	75	11.3	83	84	1.2	30 - 130	30	
Acenaphthylene	ND	230	66	73	10.1	80	82	2.5	30 - 130	30	
Anthracene	ND	230	70	77	9.5	85	88	3.5	30 - 130	30	
Benz(a)anthracene	ND	230	71	79	10.7	87	88	1.1	30 - 130	30	
Benzo(a)pyrene	ND	230	69	76	9.7	83	84	1.2	30 - 130	30	
Benzo(b)fluoranthene	ND	230	69	76	9.7	87	88	1.1	30 - 130	30	
Benzo(ghi)perylene	ND	230	72	80	10.5	91	90	1.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	68	75	9.8	80	81	1.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBJ32135

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chrysene	ND	230	74	81	9.0	91	91	0.0	30 - 130	30
Dibenz(a,h)anthracene	ND	230	68	76	11.1	84	86	2.4	30 - 130	30
Fluoranthene	ND	230	71	77	8.1	85	87	2.3	30 - 130	30
Fluorene	ND	230	69	77	11.0	84	86	2.4	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	74	82	10.3	91	92	1.1	30 - 130	30
Naphthalene	ND	230	60	66	9.5	72	73	1.4	30 - 130	30
Phenanthrene	ND	230	70	77	9.5	84	86	2.4	30 - 130	30
Pyrene	ND	230	71	77	8.1	86	89	3.4	30 - 130	30
% 2-Fluorobiphenyl	76	%	56	71	23.6	80	74	7.8	30 - 130	30
% Nitrobenzene-d5	64	%	51	65	24.1	71	67	5.8	30 - 130	30
% Terphenyl-d14	91	%	62	76	20.3	87	82	5.9	30 - 130	30

Comment:

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

QA/QC Batch 312091 (mg/Kg), QC Sample No: BJ37924 (BJ32135, BJ32142)

TPH by GC (Extractable Products) - Soil

Ext. Petroleum HC	ND	50	64	63	1.6	65	63	3.1	30 - 130	30
% n-Pentacosane	88	%	107	104	2.8	108	104	3.8	50 - 150	30

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 01, 2015

Sample Criteria Exceedences Report

GBJ32135 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ32139	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2000	280	1000	1000	ug/Kg
BJ32139	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2300	280	1000	1000	ug/Kg
BJ32139	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4100	280	4000	4000	ug/Kg
BJ32139	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2100	280	1000	1000	ug/Kg
BJ32139	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	280	1000	1000	ug/Kg
BJ32139	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	280	1000	1000	ug/Kg
BJ32139	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2300	280	1000	1000	ug/Kg
BJ32140	$8260MAR	Total Xylenes	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	29000	400	19500	19500	ug/Kg
BJ32140	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	10	10	ug/Kg
BJ32140	$8260MAR	Ethylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	29000	28000	10100	10100	ug/Kg
BJ32140	$8260MAR	Isopropylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	25000	24000	600	600	ug/Kg
BJ32140	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	550000	40000	5600	5600	ug/Kg
BJ32140	$8260MAR	n-Propylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	3200	400	1400	1400	ug/Kg
BJ32140	$8260MAR	p-Isopropyltoluene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	18000	2000	600	600	ug/Kg
BJ32140	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	120	120	ug/Kg
BJ32140	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	54	54	ug/Kg
BJ32140	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	40	40	ug/Kg
BJ32140	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	10	10	ug/Kg
BJ32140	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	140	140	ug/Kg
BJ32140	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	20	20	ug/Kg
BJ32140	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	240	10	10	ug/Kg
BJ32140	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	1,2,4-Trimethylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	29000	28000	7000	7000	ug/Kg
BJ32140	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	10	10	ug/Kg
BJ32140	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	20	20	ug/Kg
BJ32140	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	10	10	ug/Kg
BJ32140	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	20	20	ug/Kg
BJ32140	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	11	11	ug/Kg
BJ32140	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	200	200	ug/Kg
BJ32140	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	80	80	ug/Kg
BJ32140	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	400	100	100	ug/Kg
BJ32140	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	240	10	10	ug/Kg
BJ32140	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	400	7	7	ug/Kg
BJ32140	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	400	320	320	ug/Kg
BJ32146	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1600	260	1000	1000	ug/Kg
BJ32146	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2100	260	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBJ32135 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ32146	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1700	260	1000	1000	ug/Kg
BJ32146	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	260	1000	1000	ug/Kg
BJ32146	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	260	1000	1000	ug/Kg
BJ32146	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1700	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1600	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1300	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	260	1000	1000	ug/Kg
BJ32147	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	260	1000	1000	ug/Kg
BJ32154	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	28.3	1.1	10	10	mg/Kg
BJ32156	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	10.1	0.9	10	10	mg/Kg
BJ32157	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6200	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	18000	2600	4000	4000	ug/Kg
BJ32157	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	22000	2600	4000	4000	ug/Kg
BJ32157	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	22000	2600	5600	5600	ug/Kg
BJ32157	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8100	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7200	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7600	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7200	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7600	520	1000	1000	ug/Kg
BJ32157	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	8100	520	1000	1000	ug/Kg
BJ32158	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	11000	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3600	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	17000	1300	4000	4000	ug/Kg
BJ32158	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	19000	1300	4000	4000	ug/Kg
BJ32158	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	20000	1300	5600	5600	ug/Kg
BJ32158	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7900	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	10000	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7900	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	10000	1300	1000	1000	ug/Kg
BJ32158	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	11000	1300	1000	1000	ug/Kg
BJ32160	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	120	120	ug/Kg
BJ32160	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	54	54	ug/Kg
BJ32160	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	10	10	ug/Kg
BJ32160	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	150	10	10	ug/Kg

Sample Criteria Exceedences Report

GBJ32135 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ32160	$8260MAR	Isopropylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	1600	250	600	600	ug/Kg
BJ32160	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	p-Isopropyltoluene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	2200	250	600	600	ug/Kg
BJ32160	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	20	20	ug/Kg
BJ32160	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	10	10	ug/Kg
BJ32160	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	5800	4900	5600	5600	ug/Kg
BJ32160	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	200	200	ug/Kg
BJ32160	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	80	80	ug/Kg
BJ32160	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	11	11	ug/Kg
BJ32160	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	20	20	ug/Kg
BJ32160	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	10	10	ug/Kg
BJ32160	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	20	20	ug/Kg
BJ32160	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	10	10	ug/Kg
BJ32160	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	140	140	ug/Kg
BJ32160	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	150	10	10	ug/Kg
BJ32160	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	40	40	ug/Kg
BJ32160	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	250	100	100	ug/Kg
BJ32160	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	250	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ32135, BJ32136, BJ32138, BJ32139, BJ32140, BJ32142, BJ32143, BJ32144, BJ32146, BJ32147, BJ32149, BJ32151, BJ32152, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157, BJ32158, BJ32159, BJ32160, BJ32161, BJ32162

Sampling Date(s): 6/16/2015

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, 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Monday, July 06, 2015

Printed Name: Ethan Lee

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 01, 2015

SDG I.D.: GBJ32135

BJ32135, BJ32136, BJ32142 BJ32143, BJ32144, BJ32149, BJ32153, BJ32154, BJ32155, BJ32156 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ32151, BJ32157 - The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

BJ32152, BJ32158 - The client requested a short list of analytes from the 6010 RCP Metals list. Only Lead is reported as requested on the chain of custody.

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

BJ32140, BJ32160 - Sample(s) required a dilution for Volatiles due to the presence of target and/or non-target compounds. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

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

QC Batch 311031 (Samples: BJ32136, BJ32143, BJ32144, BJ32149, BJ32159): -----

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)

Instrument: Au-fid1 06/27/15-2 (BJ32135, BJ32142)

As per section 7.2.3, a discrimination check standard was run (627A016_2) and contained the following outliers: None.

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BJ32142
Preceding CC 627A016 - ETPH (C9-C36) (46%H), Pentacosane (38%H)
Succeeding CC 627A028 - None.
A low "1A" standard was run to demonstrate capability to detect these compounds at the indicated RL. All reported samples were ND for these compounds.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/27/2015

Instrument: Au-fid1 06/29/15-1 (BJ32135)

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

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As per section 7.2.3, a discrimination check standard was run (629A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/29/2015

Instrument: Au-fid11 06/17/15-2 (BJ32136, BJ32159)

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (617A016_1) and contained the following outliers:
C30 (23%L), C36 (87%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/17/2015

Instrument: Au-fid11 06/26/15-1 (BJ32146)

The initial calibration (ETPH625I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (626A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/26/2015

Instrument: Au-fid84 06/18/15-1 (BJ32136)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (618A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/18/2015

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SDG I.D.: GBJ32135

Instrument: Au-fid84 06/23/15-1 (BJ32138, BJ32139)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-fid84 06/23/15-2 (BJ32147)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A018_1) and contained the following outliers:
C36 (20.7%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Aufid-d1 06/17/15-2 (BJ32143, BJ32144, BJ32149)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (617B016_1) and contained the following outliers:
C30 (32.4%L), C36 (130%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

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SDG I.D.: GBJ32135

Printed Name Jeff Bucko
Position: Chemist
Date: 6/17/2015

QC (Batch Specific)

---------- Sample No: BJ32159, QA/QC Batch: 311031 ----------

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: BJ33430, QA/QC Batch: 311571 ----------

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: BJ37924, QA/QC Batch: 312091 ----------

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 311074 (Samples: BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Mercury)

Instrument: Merlin 06/17/15-1 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157)

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.

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July 01, 2015

SDG I.D.: GBJ32135

Printed Name Rick Schweitzer
Position: Chemist
Date: 6/17/2015

Instrument: Merlin 06/23/15-1 (BJ32138, BJ32139, BJ32146, BJ32147)

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: 6/23/2015

Instrument: Merlin 06/29/15-1 (BJ32135, BJ32142)

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: 6/29/2015

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QC (Site Specific)

---------- Sample No: BJ32151, QA/QC Batch: 311074 ----------

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(130%)

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: BJ33430, QA/QC Batch: 311639 ----------

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: BJ38140, QA/QC Batch: 312182 ----------

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? No.

QC Batch 312112 (Samples: BJ32135, BJ32142) ----

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

Instrument: Arcos 06/17/15-1 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32152, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157, BJ32158)

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.

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SDG I.D.: GBJ32135

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: 6/17/2015

Instrument: Arcos 06/18/15-1 (BJ32136, BJ32143, BJ32144, BJ32149, BJ32151, BJ32152, BJ32153, BJ32154, BJ32155, BJ32156, BJ32157, BJ32158)

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: 6/18/2015

Instrument: Arcos 06/19/15-1 (BJ32136, BJ32143, BJ32144, BJ32153, BJ32154, BJ32155, BJ32156)

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: 6/19/2015

Instrument: Arcos 06/23/15-1 (BJ32138, BJ32139, BJ32146, BJ32147)

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: 6/23/2015

Instrument: Arcos 06/29/15-1 (BJ32135, BJ32142, BJ32157)

The initial calibration met criteria.

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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: 6/29/2015

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QC (Site Specific)

---------- Sample No: BJ32151, QA/QC Batch: 311039 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ32135, QA/QC Batch: 312112 ----------

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: BJ34469, QA/QC Batch: 311589 ----------

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: BJ34469, QA/QC Batch: 311649 ----------

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: Chem05 06/22/15-2 (BJ32138, BJ32139, BJ32146, BJ32147)

Initial Calibration Verification (CHEM05/BN_0615):
100% of target compounds met criteria.

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The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM05/0622_33-BN_0615):
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: 6/22/2015

Instrument: Chem19 06/16/15-2 (BJ32144)

Initial Calibration Verification (CHEM19/BN_0609):
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 (CHEM19/0616_27-BN_0609):
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: 6/16/2015

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QC (Site Specific)

---------- Sample No: BJ32151, QA/QC Batch: 311030 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ33430, QA/QC Batch: 311570 ----------

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: BJ37180, QA/QC Batch: 311975 ----------

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: Chem05 06/17/15-1 (BJ32151)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0617_02-SV_0615):
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 (.054)[0.1], Hexachlorobenzene (.091)[0.1]

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

Printed Name Damien Drobinski
Position: Chemist
Date: 6/17/2015

Instrument: Chem05 06/29/15-1 (BJ32158)

Initial Calibration Verification (CHEM05/SV_0626):
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 (CHEM05/0629_02-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 (.062)[0.1], Hexachlorobenzene (.089)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/29/2015

Instrument: Chem06 06/16/15-2 (BJ32136, BJ32143, BJ32159)

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/SV_0610):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0616_34-SV_0610):
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: 2,4-dinitrophenol (38%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.077)[0.1], Hexachlorobenzene (.093)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/16/2015

Instrument: Chem06 06/17/15-1 (BJ32149, BJ32157)

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

RCP Certification Report

July 01, 2015

SDG I.D.: GBJ32135

Initial Calibration Verification (CHEM06/SV_0610):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0617_02-SV_0610):
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: 2-nitrophenol (33%L)[30%], Benzidine (55%H)[30%]
The following compounds did not meet maximum % deviations: Benzidine (55%H)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.080)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/17/2015

Instrument: Chem06 06/18/15-1 (BJ32157)

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/SV_0610):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (28%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0618_02-SV_0610):
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: 2-nitrophenol (45%L)[30%]
The following compounds did not meet maximum % deviations: 2-nitrophenol (45%L)[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: 6/18/2015

Instrument: Chem06 06/27/15-1 (BJ32135, BJ32142, BJ32158)

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/SV_0626):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (23%), Benzidine (22%), Di-n-octylphthalate (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0627_02-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.

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The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.063)[0.1], Hexachlorobenzene (.077)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/27/2015

QC (Site Specific)

---------- Sample No: BJ32151, QA/QC Batch: 311030 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ33430, QA/QC Batch: 311570 ----------

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: BJ37180, QA/QC Batch: 311975 ----------

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.

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VOA Narration

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

QC Batch 311553 (Samples: BJ32161, BJ32162): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromomethane, Carbon Disulfide, Dibromochloromethane, trans-1,3-Dichloropropene)

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane, Vinyl chloride)

Instrument: Chem14 06/25/15-1 (BJ32139, BJ32159)

Initial Calibration Verification (CHEM14/VT-0622):
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 (CHEM14/0625_02-VT-0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/25/2015

Instrument: Chem18 06/19/15-1 (BJ32161, BJ32162)

Initial Calibration Verification (CHEM18/VT-M0615):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (33%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0619M03-VT-M0615):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/19/2015

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 01, 2015

SDG I.D.: GBJ32135

Instrument: Chem18 06/24/15-2 (BJ32140, BJ32160)

Initial Calibration Verification (CHEM18/VT-M0622):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-Chloropropane (27%), Acetone (23%), Dibromochloromethane (35%), Styrene (21%), trans-1,4-Dichloro-2-butene (34%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM18/0624M35-VT-M0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/24/2015

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 01, 2015

SDG I.D.: GBJ32135

QC (Batch Specific)

---------- Sample No: BJ32088, QA/QC Batch: 311553 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(135%), Carbon Disulfide(138%), Dichlorodifluoromethane(157%), trans-1,3-Dichloropropene(132%), Vinyl chloride(134%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(133%), Carbon Disulfide(139%), Dibromochloromethane(132%), Dichlorodifluoromethane(156%), trans-1,3-Dichloropropene(133%), Vinyl chloride(136%)

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

---------- Sample No: BJ34751, QA/QC Batch: 311915 ----------

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: BJ34778, QA/QC Batch: 311944 ----------

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 3°C.
(Note acceptance criteria is above freezing up to 6°C)

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

3° W/C + ICP

CHAIN-OF-CUSTODY RECORD 32786

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014S4.P30	Phoenix

REPORT TO: Kevin Vandervees (F+O)
INVOICE TO: same
~~P.O. No.:~~ Quote # FO040315BA
Sampler's Signature: Date:

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	CT ETPH	PAHs (8270)	PCBs 8 metals Cr, Ni, Zn	HOLD	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (8 oz) ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
1					125115O616-01	S	6/6/15	0910				X			1									32135
2					-02			0915	X	X	X	X			1									32136
3					-03			0920				X			1									32137
4					-04			1000				X			1									32138
5					-05			1005				X	1	2	1									32139
6					-06			1010				X	1	2	1									32140
7					-07			1020				X	1	2	1									32141
8					-08			1100				X			1									32142
9					-09			1105	X	X	X	X			1				Dup-NC					32143
10					-10			1110	X	X	X	X			1									32144

Transfer Number	Relinquished By	Accepted By	Date	Time
1			6/11/15	1722
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / RESDEC of CT RSRs
Additional Comments:
Duplicate parameters (no charge) match sample # D2

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☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

3°W/cTsp

CHAIN-OF-CUSTODY RECORD 32787

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	20014S4.P30	Phoenix

Report To: Kevin Vanderveer (F+O)
Invoice To: Same
~~P.O. No.~~: Quote # FO 040315BA
Sampler's Signature: _____ Date: 6/16/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: CT ETPH	PAHs (8270)	RCRA 8 Metals	Cu, Ni, Zn	Lead	Al	pH	HOLD	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ HCl	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					125150 6/16-11	S	6/16/15	1115								X			1									32145
12					-12			1140								X												32146
13					-13			1145								X												32147
14					-14			1150								X												32148
15					-15			1330	X	X	X	X																32149
16					-16			1340								X												32150
17					-17			1430		X	X		X						3				32151					MS/MSD
18					-18			1440					X															32152
19					-19			1505			X	X		X	X														32153
20					-20	↓	↓	1450			X	X		X	X				↓										32154

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Chandra	6/16/15	1722
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC
Additional Comments:

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☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

30 MCP

CHAIN-OF-CUSTODY RECORD 32788

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	20014S4.P30	Phoenix

Report To: Kevin Vanderveer (F+O)
Invoice To: same
~~P.O. No.:~~ FO 040315BA
Sampler's Signature: _____ Date: 6/16/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	PAHs	RCRA 8 metals	Lead	Al	pH	Cu Ni Zn	VOCs (8260) CT ETPH	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ☐ $Na(SO_4)_2$ (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
21		125115O616-21	S	6/16/15	1455		X		X	X	X				1									32155
22		-22	↓	↓	1500		X		X	X	X				1									32156
23		-23			1530	X	X	X							1									32157
24		-24			1540			X							1									32158
25		-25			1670	X						X	1	2	1				32159					HOLD VOAs
26		-26	↓		1630								1	2	1				32160					HOLD
27		-27	X		1635							X	1											32161
28		-28	X	↓	1636							X		2										32162

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Clearadine	6/16/15	1722
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC of CT RSRs
Additional Comments:

GBJ 32135

Shannon - Phoenixlabs

From: Bobbi - Phoenixlabs [bobbi@phoenixlabs.com]
Sent: Friday, June 26, 2015 12:35 PM
To: 'Shannon - Phoenixlabs'
Subject: FW: Anocoil - Additional Analyses (from 6/16 and 6/18)

can you please help and scan this too. thanks

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Kevin Vanderveer [mailto:KVanderveer@fando.com]
Sent: Friday, June 26, 2015 12:19 PM
To: bobbi@phoenixlabs.com
Cc: Brent Henebry; Sarah Rochelt
Subject: Anocoil - Additional Analyses (from 6/16 and 6/18)

Bobbi,

Would you please run the samples below. I noted the sample dates for hold time reference. I will be out of the office for a week. Could you please copy Brent Henebry and Sarah Rochelt on data notifications.

From 1/16/2015

- BJ32135 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, and zinc
- BJ32142 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, and zinc
- BJ32157 – SPLP lead and selenium
- BJ32158 – PAHs

From 6/17/2015

- BJ33419 – SPLP chromium and lead
- BJ33420 – SPLP barium and lead
- BJ33421 – SPLP chromium
- BJ33423 – VOCs
- BJ33424 – SPLP arsenic, chromium, and lead
- BJ33425 – VOCs, arsenic, chromium, lead
- BJ33427 – SPLP lead
- BJ33428 – SPLP lead (duplicate)
- BJ33433 – SPLP arsenic and lead
- BJ33434 – ETPH, PAHs, arsenic, lead

Thank you,

GBJ 32135

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
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Sarah - Phoenixlabs

From: Paula M. Bibeau [PBibeau@fando.com]
Sent: Wednesday, June 17, 2015 10:34 AM
To: Internet:SARAH@PHOENIXLABS.COM
Cc: Matthew Vitale; Kevin Vanderveer
Subject: FW: Phoenix Labs - GBJ32135, ANOCOIL - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

Please change these sample numbers to all have three numbers after the -.

Examples:
1251150616-01 change to 1251150616-001.
1251150616-10 change to 1251150616-010.

Thanks.
Paula Bibeau
Environmental Analyst
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5371 | pbibeau@fando.com
www.fando.com | twitter | facebook | linkedin
From: clientservices@phoenixlabs.com [mailto:clientservices@phoenixlabs.com]
Sent: Wednesday, June 17, 2015 10:13 AM
To: Paula M. Bibeau
Subject: Phoenix Labs - GBJ32135, ANOCOIL - COC Acknowledgement

Paula,

Delivery group GBJ32135 (ANOCOIL) has been logged in for the following samples:

Phoenix Id	Client Id
BJ32135	1251150616-01
BJ32136	1251150616-02
BJ32137	1251150616-03
BJ32138	1251150616-04
BJ32139	1251150616-05
BJ32140	1251150616-06
BJ32141	1251150616-07
BJ32142	1251150616-08
BJ32143	1251150616-09
BJ32144	1251150616-10
BJ32145	1251150616-11
BJ32146	1251150616-12
BJ32147	1251150616-13
BJ32148	1251150616-14
BJ32149	1251150616-15

BJ32150	1251150616-16
BJ32151	1251150616-17
BJ32152	1251150616-18
BJ32153	1251150616-19
BJ32154	1251150616-20
BJ32155	1251150616-21
BJ32156	1251150616-22
BJ32157	1251150616-23
BJ32158	1251150616-24
BJ32159	1251150616-25
BJ32160	1251150616-26
BJ32161	1251150616-27
BJ32162	1251150616-28

The samples in this delivery group were received at 3°C. (Note acceptance criteria is above freezing up to 6°C)

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

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

Please do not reply to this email.

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Monday, June 22, 2015 8:43 AM
To: bobbi@phoenixlabs.com
Subject: Anocoil - Addons from 6/16/2015
Follow Up Flag: Follow up
Flag Status: Red

Bobbi,

Could you run the following samples (collected 6/16/2015):

- BJ32138 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, zinc
- BJ32139 – VOCs, ETPH, PAHs, RCRA 8 metals plus copper, nickel, zinc
- BJ32140 – VOCs
- BJ32146 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, zinc
- BJ32147 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, zinc
- BJ32159 - VOCs
- BJ32160 - VOCs

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

PHOENIX
Environmental Laboratories, Inc.

Thursday, July 16, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ33419 - BJ33425, BJ33427 - BJ33428, BJ33430, BJ33432 - BJ33434, BJ33436 - BJ33437

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 12:32 pm, Jul 24, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 08, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ33419 - BJ33425, BJ33427 - BJ33428, BJ33430, BJ33432 - BJ33434, BJ33436 - BJ33437

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 8:03 am, Jul 09, 2015

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 01, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ33419 - BJ33425, BJ33427 - BJ33428, BJ33430, BJ33432 - BJ33434, BJ33436 - BJ33437

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED DMS
By pbibeau at 8:03 am, Jul 09, 2015

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 08, 2015

SDG I.D.: GBJ33419

Version 3:
The semi-volatile dilution factor was corrected for BJ33420 (1251150618-030)
The ETPH for BJ33432 (1251150618-042) was re-analyzed without a dilution and the report has been revised with the new analysis.

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 16, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	9:05
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33419

Project ID: ANOCOIL
Client ID: 1251150618-029

SB-38 (0.75-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.34	0.34	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	3.8	0.7	mg/Kg	1	06/20/15	LK	SW6010C
Barium	96.8	0.34	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	970	3.4	mg/Kg	10	06/23/15	EK	SW6010C
Copper	76.0	0.34	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.05	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	10.7	0.34	mg/Kg	1	06/20/15	LK	SW6010C
Lead	180	3.4	mg/Kg	10	06/23/15	EK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Chromium	0.022	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	186	3.4	mg/Kg	10	06/23/15	EK	SW6010C
Percent Solid	92		%		06/18/15	W	SW846-%Solid
Chromium, Hexavalent	5.52	0.43	mg/Kg	1	07/15/15	KH	SW7196A
Redox Potential	125	1.0	mV	1	07/14/15	DH/EG	SM2580B-09
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	06/21/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-029

SB-38 (0.75-2.5')

Phoenix I.D.: BJ33419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
2-Chlorotoluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	06/21/15	JLI	SW8260
2-Isopropyltoluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
4-Chlorotoluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	06/21/15	JLI	SW8260
Acetone	ND	32	ug/Kg	1	06/21/15	JLI	SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Benzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromoform	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromomethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloroform	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	06/21/15	JLI	SW8260
Dibromomethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Hexachlorobutadiene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Isopropylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	06/21/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/21/15	JLI	SW8260
Methylene chloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Naphthalene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-029

SB-38 (0.75-2.5')

Phoenix I.D.: BJ33419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
n-Propylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
o-Xylene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
p-Isopropyltoluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
sec-Butylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Styrene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
tert-Butylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Tetrachloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/21/15	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	06/21/15	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/21/15	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	06/21/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	1	06/21/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/21/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	570	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2-Chloronaphthalene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2-Chlorophenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylnaphthalene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitroaniline	ND	570	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitrophenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
3-Nitroaniline	ND	570	ug/Kg	1	06/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1000	ug/Kg	1	06/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-029

SB-38 (0.75-2.5')

Phoenix I.D.: BJ33419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chloroaniline	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitroaniline	ND	570	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitrophenol	ND	1000	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Acetophenone	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Aniline	ND	1000	ug/Kg	1	06/18/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benzidine	ND	420	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Benzoic acid	ND	1000	ug/Kg	1	06/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Carbazole	ND	530	ug/Kg	1	06/18/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Dibenzofuran	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Diethyl phthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Dimethylphthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-butylphthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-octylphthalate	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobutadiene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Hexachloroethane	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Isophorone	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Nitrobenzene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
Pentachlorophenol	ND	350	ug/Kg	1	06/18/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Phenol	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/18/15	DD	SW8270D
Pyridine	ND	350	ug/Kg	1	06/18/15	DD	SW8270D

QA/QC Surrogates

Project ID: ANOCOIL
Client ID: 1251150618-029

SB-38 (0.75-2.5')

Phoenix I.D.: BJ33419

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2,4,6-Tribromophenol	47		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	38		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorophenol	33		%	1	06/18/15	DD	30 - 130 %
% Nitrobenzene-d5	35		%	1	06/18/15	DD	30 - 130 %
% Phenol-d5	36		%	1	06/18/15	DD	30 - 130 %
% Terphenyl-d14	40		%	1	06/18/15	DD	30 - 130 %

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 16, 2015
Reviewed and Released by: Ethan Lee, 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

July 08, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	9:20
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33420

Project ID: ANOCOIL
Client ID: 1251150618-030 SB-39 (0-3.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	6.9	0.8	mg/Kg	1	06/20/15	LK	SW6010C
Barium	658	0.38	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	0.43	0.38	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	42.5	0.38	mg/Kg	1	06/20/15	LK	SW6010C
Copper	61.3	0.38	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.27	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	17.3	0.38	mg/Kg	1	06/20/15	LK	SW6010C
Lead	1790	38	mg/Kg	100	06/23/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Barium	0.087	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	634	3.8	mg/Kg	10	06/22/15	LK	SW6010C
Percent Solid	85		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	06/21/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1-Dichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,1-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-030

SB-39 (0-3.5')

Phoenix I.D.: BJ33420

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2,3-Trichloropropane	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2-Dibromoethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dichlorobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,2-Dichloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,2-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,3-Dichlorobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
1,3-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
1,4-Dichlorobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
2,2-Dichloropropane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
2-Chlorotoluene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	06/21/15	JLI	SW8260
2-Isopropyltoluene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
4-Chlorotoluene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	06/21/15	JLI	SW8260
Acetone	ND	32	ug/Kg	1	06/21/15	JLI	SW8260
Acrylonitrile	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Benzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromobenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
Bromochloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromodichloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromoform	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Bromomethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Carbon Disulfide	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Carbon tetrachloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chlorobenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloroform	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Chloromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	06/21/15	JLI	SW8260
Dibromomethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Ethylbenzene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Hexachlorobutadiene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
Isopropylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
m&p-Xylene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	06/21/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/21/15	JLI	SW8260
Methylene chloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Naphthalene	960	310	ug/Kg	50	06/21/15	JLI	SW8260
n-Butylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
n-Propylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-030

SB-39 (0-3.5')

Phoenix I.D.: BJ33420

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
o-Xylene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
p-Isopropyltoluene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
sec-Butylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
Styrene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
tert-Butylbenzene	ND	310	ug/Kg	50	06/21/15	JLI	SW8260
Tetrachloroethene	350	310	ug/Kg	50	06/21/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/21/15	JLI	SW8260
Toluene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Total Xylenes	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	610	ug/Kg	50	06/21/15	JLI	SW8260
Trichloroethene	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Trichlorofluoromethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
Vinyl chloride	ND	5.4	ug/Kg	1	06/21/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/21/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	06/21/15	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	06/21/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/21/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,4-Dichlorophenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,4-Dimethylphenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,4-Dinitrophenol	ND	6200	ug/Kg	10	06/22/15	DD	SW8270D
2,4-Dinitrotoluene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2,6-Dinitrotoluene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2-Chloronaphthalene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2-Chlorophenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2-Methylnaphthalene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
2-Nitroaniline	ND	6200	ug/Kg	10	06/22/15	DD	SW8270D
2-Nitrophenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
3-Nitroaniline	ND	6200	ug/Kg	10	06/22/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	11000	ug/Kg	10	06/22/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
4-Chloroaniline	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-030

SB-39 (0-3.5')

Phoenix I.D.: BJ33420

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitroaniline	ND	6200	ug/Kg	10	06/22/15	DD	SW8270D
4-Nitrophenol	ND	11000	ug/Kg	10	06/22/15	DD	SW8270D
Acenaphthene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Acenaphthylene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Acetophenone	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Aniline	ND	11000	ug/Kg	10	06/22/15	DD	SW8270D
Anthracene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benz(a)anthracene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benzidine	ND	4700	ug/Kg	10	06/22/15	DD	SW8270D
Benzo(a)pyrene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benzo(b)fluoranthene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benzo(ghi)perylene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benzo(k)fluoranthene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Benzoic acid	ND	11000	ug/Kg	10	06/22/15	DD	SW8270D
Benzyl butyl phthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Carbazole	ND	5800	ug/Kg	10	06/22/15	DD	SW8270D
Chrysene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Dibenzofuran	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Diethyl phthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Dimethylphthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Di-n-butylphthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Di-n-octylphthalate	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Fluoranthene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Fluorene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Hexachlorobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Hexachlorobutadiene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Hexachloroethane	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Isophorone	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Naphthalene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Nitrobenzene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
N-Nitrosodimethylamine	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
Pentachloronitrobenzene	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
Pentachlorophenol	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
Phenanthrene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Phenol	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Pyrene	ND	2700	ug/Kg	10	06/22/15	DD	SW8270D
Pyridine	ND	3900	ug/Kg	10	06/22/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	59		%	10	06/22/15	DD	30 - 130 %
% 2-Fluorobiphenyl	69		%	10	06/22/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-030

SB-39 (0-3.5')

Phoenix I.D.: BJ33420

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorophenol	58		%	10	06/22/15	DD	30 - 130 %
% Nitrobenzene-d5	66		%	10	06/22/15	DD	30 - 130 %
% Phenol-d5	67		%	10	06/22/15	DD	30 - 130 %
% Terphenyl-d14	58		%	10	06/22/15	DD	30 - 130 %

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

Comments:

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

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

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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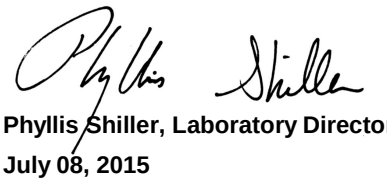

Phyllis Shiller, Laboratory Director
July 08, 2015
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	9:40
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33421

Project ID: ANOCOIL
Client ID: 1251150618-031 SB-40 (5-9')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	4.0	0.7	mg/Kg	1	06/20/15	LK	SW6010C
Barium	229	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	321	3.6	mg/Kg	10	06/22/15	LK	SW6010C
Copper	34.4	0.36	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.46	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	13.7	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Lead	162	3.6	mg/Kg	10	06/22/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Chromium	0.024	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	77.7	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	88		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-031

SB-40 (5-9')

Phoenix I.D.: BJ33421

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/23/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	06/19/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	06/19/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	06/19/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	06/19/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	06/19/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-031

SB-40 (5-9')

Phoenix I.D.: BJ33421

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	06/19/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	06/19/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Benz(a)anthracene	440	260	ug/Kg	1	06/19/15	DD	SW8270D
Benzidine	ND	440	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(a)pyrene	440	260	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(b)fluoranthene	590	260	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(ghi)perylene	330	260	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	06/19/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Carbazole	ND	550	ug/Kg	1	06/19/15	DD	SW8270D
Chrysene	430	260	ug/Kg	1	06/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Fluoranthene	840	260	ug/Kg	1	06/19/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	360	260	ug/Kg	1	06/19/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
Phenanthrene	460	260	ug/Kg	1	06/19/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	06/19/15	DD	SW8270D
Pyrene	720	260	ug/Kg	1	06/19/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	06/19/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	06/19/15	DD	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	06/19/15	DD	30 - 130 %
% 2-Fluorophenol	59		%	1	06/19/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-031

SB-40 (5-9')

Phoenix I.D.: BJ33421

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	64		%	1	06/19/15	DD	30 - 130 %
% Phenol-d5	65		%	1	06/19/15	DD	30 - 130 %
% Terphenyl-d14	79		%	1	06/19/15	DD	30 - 130 %

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

Comments:

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

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

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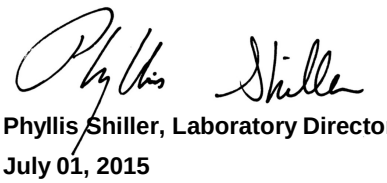

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	10:10
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33422

Project ID: ANOCOIL
Client ID: 1251150618-032

MW-10 (3-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	3.0	0.7	mg/Kg	1	06/20/15	LK	SW6010C
Barium	63.0	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	24.4	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Copper	14.3	0.36	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.17	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	3.91	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Lead	96.6	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/20/15	LK	SW6010C
Zinc	7.04	0.36	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	89		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.7	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-032

MW-10 (3-5')

Phoenix I.D.: BJ33422

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	27	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	2.7	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	27	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.1	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-032

MW-10 (3-5')

Phoenix I.D.: BJ33422

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
tert-Butylbenzene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.1	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.1	ug/Kg	1	06/23/15	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	118		%	1	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/23/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitrophenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-032

MW-10 (3-5')

Phoenix I.D.: BJ33422

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzidine	ND	450	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Carbazole	ND	560	ug/Kg	1	06/18/15	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	90		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	82		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorophenol	68		%	1	06/18/15	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	06/18/15	DD	30 - 130 %
% Phenol-d5	77		%	1	06/18/15	DD	30 - 130 %
% Terphenyl-d14	86		%	1	06/18/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-032

MW-10 (3-5')

Phoenix I.D.: BJ33422

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	10:15
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33423

Project ID: ANOCOIL
Client ID: 1251150618-033

MW-10 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		06/26/15	I	SW846-%Solid
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/28/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dibromoethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	06/28/15	JLI	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-033

MW-10 (6-8')

Phoenix I.D.: BJ33423

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	06/28/15	JLI	SW8260
Acetone	ND	25	ug/Kg	1	06/28/15	JLI	SW8260
Acrylonitrile	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Benzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Bromobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Bromochloromethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Bromodichloromethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Bromoform	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Bromomethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Chlorobenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Chloroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Chloroform	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Chloromethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	06/28/15	JLI	SW8260
Dibromomethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Ethylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
m&p-Xylene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/28/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	06/28/15	JLI	SW8260
Methylene chloride	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Naphthalene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
o-Xylene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Styrene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	06/28/15	JLI	SW8260
Toluene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Total Xylenes	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	06/28/15	JLI	SW8260
Trichloroethene	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
Vinyl chloride	ND	4.2	ug/Kg	1	06/28/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/28/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-033

MW-10 (6-8')

Phoenix I.D.: BJ33423

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	91		%	1	06/28/15	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	06/28/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/28/15	JLI	70 - 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.
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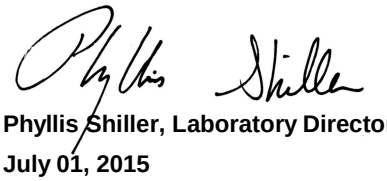

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	11:40
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33424

Project ID: ANOCOIL
Client ID: 1251150618-034

SB-41 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	18.4	0.8	mg/Kg	1	06/20/15	LK	SW6010C
Barium	32.0	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	210	4.0	mg/Kg	10	06/22/15	LK	SW6010C
Copper	52.4	0.40	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.24	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	12.6	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Lead	113	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Arsenic	0.008	0.004	mg/L	1	06/29/15	EK	SW6010C
SPLP Chromium	0.290	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Lead	0.071	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	39.2	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	86		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.8	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-034

SB-41 (0.5-2')

Phoenix I.D.: BJ33424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
2-Hexanone	ND	40	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	40	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	48	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
Bromochloromethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	4.8	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
Isopropylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
m&p-Xylene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	48	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
n-Butylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
o-Xylene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
p-Isopropyltoluene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
Styrene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	230	ug/Kg	50	06/23/15	JLI	SW8260
Tetrachloroethene	950	230	ug/Kg	50	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
Trichloroethene	9.2	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	8.0	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	122		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	85		%	1	06/23/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
1,2-Dichlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
1,3-Dichlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
1,4-Dichlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,4-Dichlorophenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,4-Dimethylphenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,4-Dinitrophenol	ND	1200	ug/Kg	2	06/22/15	DD	SW8270D
2,4-Dinitrotoluene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2,6-Dinitrotoluene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2-Chloronaphthalene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2-Chlorophenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2-Methylnaphthalene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
2-Nitroaniline	ND	1200	ug/Kg	2	06/22/15	DD	SW8270D
2-Nitrophenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
3-Nitroaniline	ND	1200	ug/Kg	2	06/22/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	2200	ug/Kg	2	06/22/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
4-Chloroaniline	ND	540	ug/Kg	2	06/22/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-034

SB-41 (0.5-2')

Phoenix I.D.: BJ33424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorophenyl phenyl ether	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
4-Nitroaniline	ND	1200	ug/Kg	2	06/22/15	DD	SW8270D
4-Nitrophenol	ND	2200	ug/Kg	2	06/22/15	DD	SW8270D
Acenaphthene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Acenaphthylene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Acetophenone	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Aniline	ND	2200	ug/Kg	2	06/22/15	DD	SW8270D
Anthracene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benz(a)anthracene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benzidine	ND	930	ug/Kg	2	06/22/15	DD	SW8270D
Benzo(a)pyrene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benzo(b)fluoranthene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benzo(ghi)perylene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benzo(k)fluoranthene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Benzoic acid	ND	2200	ug/Kg	2	06/22/15	DD	SW8270D
Benzyl butyl phthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Carbazole	ND	1200	ug/Kg	2	06/22/15	DD	SW8270D
Chrysene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Dibenzofuran	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Diethyl phthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Dimethylphthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Di-n-butylphthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Di-n-octylphthalate	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Fluoranthene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Fluorene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Hexachlorobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Hexachlorobutadiene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Hexachloroethane	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Isophorone	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Naphthalene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Nitrobenzene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
N-Nitrosodimethylamine	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
Pentachloronitrobenzene	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
Pentachlorophenol	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
Phenanthrene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Phenol	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Pyrene	ND	540	ug/Kg	2	06/22/15	DD	SW8270D
Pyridine	ND	770	ug/Kg	2	06/22/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	2	06/22/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-034

SB-41 (0.5-2')

Phoenix I.D.: BJ33424

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% 2-Fluorobiphenyl	72		%	2	06/22/15	DD	30 - 130 %
% 2-Fluorophenol	67		%	2	06/22/15	DD	30 - 130 %
% Nitrobenzene-d5	80		%	2	06/22/15	DD	30 - 130 %
% Phenol-d5	75		%	2	06/22/15	DD	30 - 130 %
% Terphenyl-d14	69		%	2	06/22/15	DD	30 - 130 %

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

Comments:

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

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

**Poor internal standard response was observed for volatiles due to matrix interference.

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

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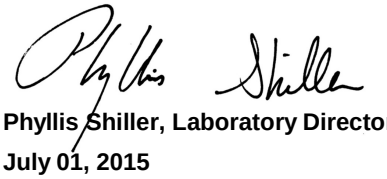

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	11:45
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33425

Project ID: ANOCOIL
Client ID: 1251150618-035

SB-41 (5-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.2	0.7	mg/Kg	1	06/29/15	LK	SW6010C
Chromium	82.7	0.36	mg/Kg	1	06/29/15	LK	SW6010C
Lead	5.28	0.36	mg/Kg	1	06/29/15	LK	SW6010C
Percent Solid	87		%		06/26/15	I	SW846-%Solid
Total Metals Digest	Completed				06/26/15	G/AG	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	06/28/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-035

SB-41 (5-10')

Phoenix I.D.: BJ33425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,2-Dichloropropane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	06/28/15	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
4-Chlorotoluene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	06/28/15	JLI	SW8260
Acetone	ND	29	ug/Kg	1	06/28/15	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	06/28/15	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
m&p-Xylene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	06/28/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	1	06/28/15	JLI	SW8260
Methylene chloride	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	1	06/28/15	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	1	06/28/15	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-035

SB-41 (5-10')

Phoenix I.D.: BJ33425

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	06/28/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	06/28/15	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	06/28/15	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	06/28/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/28/15	JLI	70 - 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.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	13:05
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33427

Project ID: ANOCOIL
Client ID: 1251150618-037

SB-43 (0.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	7.3	0.7	mg/Kg	1	06/20/15	LK	SW6010C
Barium	139	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	17.3	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Copper	38.1	0.35	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.16	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	9.58	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Lead	321	3.5	mg/Kg	10	06/22/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Lead	< 0.010	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	103	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	89		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-037

SB-43 (0.5-2.5')

Phoenix I.D.: BJ33427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Bromochloromethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Isopropylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
m&p-Xylene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
n-Butylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
n-Propylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
o-Xylene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Styrene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Tetrachloroethene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Trichloroethene	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	5.1	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	109		%	1	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	88		%	1	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/23/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Chloronaphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Chlorophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylnaphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitrophenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
3-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloroaniline	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitroaniline	ND	590	ug/Kg	1	06/18/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-037

SB-43 (0.5-2.5')

Phoenix I.D.: BJ33427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthylene	1300	260	ug/Kg	1	06/18/15	DD	SW8270D
Acetophenone	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Anthracene	860	260	ug/Kg	1	06/18/15	DD	SW8270D
Benz(a)anthracene	2000	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzidine	ND	440	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(a)pyrene	2000	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(b)fluoranthene	2500	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(ghi)perylene	1300	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(k)fluoranthene	800	260	ug/Kg	1	06/18/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Carbazole	ND	550	ug/Kg	1	06/18/15	DD	SW8270D
Chrysene	2200	260	ug/Kg	1	06/18/15	DD	SW8270D
Dibenz(a,h)anthracene	290	260	ug/Kg	1	06/18/15	DD	SW8270D
Dibenzofuran	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Diethyl phthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Dimethylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-butylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-octylphthalate	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Fluoranthene	3600	260	ug/Kg	1	06/18/15	DD	SW8270D
Fluorene	290	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobutadiene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Hexachloroethane	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1200	260	ug/Kg	1	06/18/15	DD	SW8270D
Isophorone	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Nitrobenzene	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Pentachlorophenol	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
Phenanthrene	2500	260	ug/Kg	1	06/18/15	DD	SW8270D
Phenol	ND	260	ug/Kg	1	06/18/15	DD	SW8270D
Pyrene	3900	260	ug/Kg	1	06/18/15	DD	SW8270D
Pyridine	ND	370	ug/Kg	1	06/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	106		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	80		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorophenol	78		%	1	06/18/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-037

SB-43 (0.5-2.5')

Phoenix I.D.: BJ33427

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	93		%	1	06/18/15	DD	30 - 130 %
% Phenol-d5	86		%	1	06/18/15	DD	30 - 130 %
% Terphenyl-d14	91		%	1	06/18/15	DD	30 - 130 %

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

Comments:

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

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

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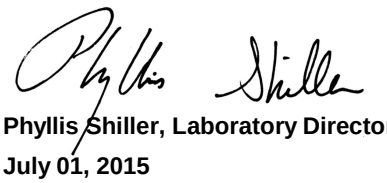

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	13:10
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33428

Project ID: ANOCOIL
Client ID: 1251150618-038 SB-43 (0.5-2.5') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.39	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	8.9	0.8	mg/Kg	1	06/20/15	LK	SW6010C
Barium	132	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	19.1	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Copper	42.7	0.39	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.17	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	12.6	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Lead	263	3.9	mg/Kg	10	06/22/15	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Lead	0.026	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	115	0.39	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	88		%		06/18/15	W	SW846-%Solid
Soil Extraction for SVOA	Completed				06/18/15	BJ/VH	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-038

SB-43 (0.5-2.5') Field Duplicate

Phoenix I.D.: BJ33428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2,3-Trichlorobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	440	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	32	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
Bromochloromethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
Isopropylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
m&p-Xylene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
n-Butylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
n-Propylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
o-Xylene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
p-Isopropyltoluene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
Styrene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	450	ug/Kg	50	06/23/15	JLI	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	900	ug/Kg	50	06/23/15	JLI	SW8260
Trichloroethene	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	5.3	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	120		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	83		%	1	06/23/15	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	610	ug/Kg	1	06/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2-Chloronaphthalene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2-Chlorophenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylnaphthalene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitroaniline	ND	610	ug/Kg	1	06/18/15	DD	SW8270D
2-Nitrophenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
3-Nitroaniline	ND	610	ug/Kg	1	06/18/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
4-Chloroaniline	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
4-Nitroaniline	ND	610	ug/Kg	1	06/18/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-038

SB-43 (0.5-2.5') Field Duplicate

Phoenix I.D.: BJ33428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitrophenol	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Acenaphthylene	490	270	ug/Kg	1	06/18/15	DD	SW8270D
Acetophenone	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Aniline	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Anthracene	380	270	ug/Kg	1	06/18/15	DD	SW8270D
Benz(a)anthracene	990	270	ug/Kg	1	06/18/15	DD	SW8270D
Benzidine	ND	450	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(a)pyrene	1100	270	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(b)fluoranthene	1300	270	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(ghi)perylene	660	270	ug/Kg	1	06/18/15	DD	SW8270D
Benzo(k)fluoranthene	500	270	ug/Kg	1	06/18/15	DD	SW8270D
Benzoic acid	ND	1100	ug/Kg	1	06/18/15	DD	SW8270D
Benzyl butyl phthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Carbazole	ND	570	ug/Kg	1	06/18/15	DD	SW8270D
Chrysene	1100	270	ug/Kg	1	06/18/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Dibenzofuran	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Diethyl phthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Dimethylphthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-butylphthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Di-n-octylphthalate	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Fluoranthene	1900	270	ug/Kg	1	06/18/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorobutadiene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Hexachloroethane	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	660	270	ug/Kg	1	06/18/15	DD	SW8270D
Isophorone	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Nitrobenzene	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
Pentachloronitrobenzene	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
Pentachlorophenol	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
Phenanthrene	1300	270	ug/Kg	1	06/18/15	DD	SW8270D
Phenol	ND	270	ug/Kg	1	06/18/15	DD	SW8270D
Pyrene	2000	270	ug/Kg	1	06/18/15	DD	SW8270D
Pyridine	ND	380	ug/Kg	1	06/18/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	69		%	1	06/18/15	DD	30 - 130 %
% 2-Fluorophenol	68		%	1	06/18/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-038

SB-43 (0.5-2.5') Field Duplicate

Phoenix I.D.: BJ33428

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Nitrobenzene-d5	77		%	1	06/18/15	DD	30 - 130 %
% Phenol-d5	72		%	1	06/18/15	DD	30 - 130 %
% Terphenyl-d14	80		%	1	06/18/15	DD	30 - 130 %

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

Comments:

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

Volatile Comment:
There was a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the methanol preserved high level analysis which did not exhibit this interference.
**Poor internal standard recovery was observed for volatiles. Sample was analyzed twice with similar results indicating matrix interference.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	13:40
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33430

Project ID: ANOCOIL
Client ID: 1251150618-040 SB-44 (0-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.45	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	8.5	0.9	mg/Kg	1	06/23/15	EK	SW6010C
Barium	70.6	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.45	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	19.6	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Copper	10.3	0.45	mg/kg	1	06/23/15	EK	SW6010C
Mercury	0.06	0.03	mg/Kg	1	06/23/15	RS	SW7471B
Nickel	12.2	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Lead	22.8	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	06/23/15	EK	SW6010C
Zinc	57.5	0.45	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	78		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	BC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	63	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	06/24/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Acenaphthylene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Anthracene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-040

SB-44 (0-4')

Phoenix I.D.: BJ33430

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(a)pyrene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(b)fluoranthene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(ghi)perylene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Benzo(k)fluoranthene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Chrysene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Fluoranthene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Fluorene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Naphthalene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Phenanthrene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
Pyrene	ND	290	ug/Kg	1	06/22/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	42		%	1	06/22/15	DD	30 - 130 %
% Nitrobenzene-d5	47		%	1	06/22/15	DD	30 - 130 %
% Terphenyl-d14	46		%	1	06/22/15	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.
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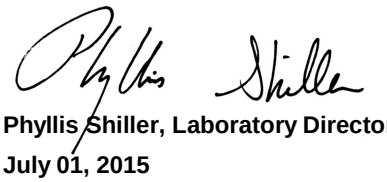

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 08, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	14:15
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33432

Project ID: ANOCOIL
Client ID: 1251150618-042 SB-45 (0.5-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	0.9	0.7	mg/Kg	1	06/20/15	LK	SW6010C
Barium	57.1	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	7.46	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Copper	12.4	0.35	mg/kg	1	06/20/15	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	4.90	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Lead	17.4	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/20/15	LK	SW6010C
Zinc	27.2	0.35	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	94		%		06/18/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/18/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/18/15	BC/V	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	240	53	mg/Kg	1	07/08/15	KCA	CTETPH 8015D
Identification	**		mg/Kg	1	07/08/15	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Interference		%	1	07/08/15	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/19/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/19/15	DD	SW8270D
Acenaphthylene	360	250	ug/Kg	1	06/19/15	DD	SW8270D
Anthracene	550	250	ug/Kg	1	06/19/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-042 SB-45 (0.5-5')

Phoenix I.D.: BJ33432

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	3400	250	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(a)pyrene	4100	250	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(b)fluoranthene	4900	250	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(ghi)perylene	3200	250	ug/Kg	1	06/19/15	DD	SW8270D
Benzo(k)fluoranthene	1500	250	ug/Kg	1	06/19/15	DD	SW8270D
Chrysene	3700	250	ug/Kg	1	06/19/15	DD	SW8270D
Dibenz(a,h)anthracene	660	250	ug/Kg	1	06/19/15	DD	SW8270D
Fluoranthene	5000	250	ug/Kg	1	06/19/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	2600	250	ug/Kg	1	06/19/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/19/15	DD	SW8270D
Phenanthrene	2200	250	ug/Kg	1	06/19/15	DD	SW8270D
Pyrene	4400	250	ug/Kg	1	06/19/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	1	06/19/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	06/19/15	DD	30 - 130 %
% Terphenyl-d14	60		%	1	06/19/15	DD	30 - 130 %

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

Comments:

TPH Comment:
**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.
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Phyllis Shiller, Laboratory Director
July 08, 2015
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	14:20
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33433

Project ID: ANOCOIL
Client ID: 1251150618-043

SB-45 (13-15')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Arsenic	69.6	0.8	mg/Kg	1	06/20/15	LK	SW6010C
Barium	74.7	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Cadmium	0.42	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Chromium	25.3	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Copper	51.9	0.40	mg/kg	1	06/20/15	LK	SW6010C
Mercury	0.17	0.03	mg/Kg	1	06/22/15	MA	SW7471B
Nickel	20.0	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Lead	208	4.0	mg/Kg	10	06/22/15	LK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/20/15	LK	SW6010C
SPLP Arsenic	0.038	0.004	mg/L	1	06/29/15	EK	SW6010C
SPLP Lead	0.039	0.010	mg/L	1	06/29/15	EK	SW6010C
SPLP Metals Digestion	Completed				06/29/15	I/I	SW3005A
Zinc	71.5	0.40	mg/Kg	1	06/20/15	LK	SW6010C
Percent Solid	74		%		06/18/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/18/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/18/15	BC/V	SW3545A
Mercury Digestion	Completed				06/22/15	I/I	SW7471B
Extraction for PCB	Completed				06/18/15	PP/X	SW3540C
SPLP Extraction for Metals	Completed				06/26/15	I	SW1312
Total Metals Digest	Completed				06/18/15	N/AG/U	SW3050B
Field Extraction	Completed				06/18/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	13000	660	mg/Kg	10	06/22/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	06/22/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	06/22/15	JRB	50 - 150 %

Project ID: ANOCOIL
Client ID: 1251150618-043

SB-45 (13-15')

Phoenix I.D.: BJ33433

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1221	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1232	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1242	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1248	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1254	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1260	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1262	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
PCB-1268	ND	0.44	mg/kg	10	06/22/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	73		%	10	06/22/15	AW	30 - 150 %
% TCMX	83		%	10	06/22/15	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	310	ug/Kg	50	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	420	380	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
2-Hexanone	ND	2600	ug/Kg	50	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
4-Methyl-2-pentanone	ND	2600	ug/Kg	50	06/23/15	JLI	SW8260
Acetone	ND	3100	ug/Kg	50	06/23/15	JLI	SW8260
Acrylonitrile	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Benzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Bromobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Bromochloromethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Bromodichloromethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Bromoform	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Bromomethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-043

SB-45 (13-15')

Phoenix I.D.: BJ33433

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbon Disulfide	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Chlorobenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Chloroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Chloroform	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Chloromethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Dibromochloromethane	ND	310	ug/Kg	50	06/23/15	JLI	SW8260
Dibromomethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Ethylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Isopropylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
m&p-Xylene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3100	ug/Kg	50	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	1000	ug/Kg	50	06/23/15	JLI	SW8260
Methylene chloride	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Naphthalene	8700	520	ug/Kg	50	06/23/15	JLI	SW8260
n-Butylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
n-Propylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
o-Xylene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
p-Isopropyltoluene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Styrene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Tetrachloroethene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	1000	ug/Kg	50	06/23/15	JLI	SW8260
Toluene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Total Xylenes	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1000	ug/Kg	50	06/23/15	JLI	SW8260
Trichloroethene	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
Vinyl chloride	ND	520	ug/Kg	50	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	06/23/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	50	06/23/15	JLI	70 - 130 %
% Toluene-d8	100		%	50	06/23/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	130000	16000	ug/Kg	50	06/22/15	DD	SW8270D
Acenaphthene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Acenaphthylene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Anthracene	15000	3100	ug/Kg	10	06/19/15	DD	SW8270D
Benz(a)anthracene	6300	3100	ug/Kg	10	06/19/15	DD	SW8270D
Benzo(a)pyrene	5700	3100	ug/Kg	10	06/19/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-043

SB-45 (13-15')

Phoenix I.D.: BJ33433

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Benzo(ghi)perylene	8300	3100	ug/Kg	10	06/19/15	DD	SW8270D
Benzo(k)fluoranthene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Chrysene	9200	3100	ug/Kg	10	06/19/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Fluoranthene	4500	3100	ug/Kg	10	06/19/15	DD	SW8270D
Fluorene	15000	3100	ug/Kg	10	06/19/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	3100	ug/Kg	10	06/19/15	DD	SW8270D
Naphthalene	32000	3100	ug/Kg	10	06/19/15	DD	SW8270D
Phenanthrene	51000	3100	ug/Kg	10	06/19/15	DD	SW8270D
Pyrene	34000	3100	ug/Kg	10	06/19/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	06/19/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	06/19/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	06/19/15	DD	30 - 130 %

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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.
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Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, 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

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	14:25
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33434

Project ID: ANOCOIL
Client ID: 1251150618-044

SB-45 (16.5-17')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.9	0.8	mg/Kg	1	06/29/15	LK	SW6010C
Lead	9.93	0.39	mg/Kg	1	06/29/15	LK	SW6010C
Percent Solid	84		%		06/26/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/26/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/26/15	BJ/V	SW3545A
Total Metals Digest	Completed				06/26/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	190	59	mg/Kg	1	06/28/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/28/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	104		%	1	06/28/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	1100	280	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(a)pyrene	280	280	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(ghi)perylene	350	280	ug/Kg	1	06/27/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Fluoranthene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	06/27/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	470	280	ug/Kg	1	06/27/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150618-044

SB-45 (16.5-17')

Phoenix I.D.: BJ33434

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	300	280	ug/Kg	1	06/27/15	DD	SW8270D
Phenanthrene	800	280	ug/Kg	1	06/27/15	DD	SW8270D
Pyrene	660	280	ug/Kg	1	06/27/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	89		%	1	06/27/15	DD	30 - 130 %
% Nitrobenzene-d5	84		%	1	06/27/15	DD	30 - 130 %
% Terphenyl-d14	92		%	1	06/27/15	DD	30 - 130 %

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

Comments:

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

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

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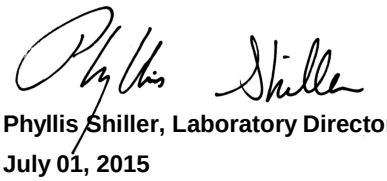

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	14:45
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33436

Project ID: ANOCOIL
Client ID: 1251150618-046

Trip Blank- high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-046

Trip Blank- high

Phoenix I.D.: BJ33436

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/23/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/23/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/23/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/23/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/23/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/23/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	06/23/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-046

Trip Blank- high

Phoenix I.D.: BJ33436

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	50	06/23/15	JLI	70 - 130 %
% Toluene-d8	100		%	50	06/23/15	JLI	70 - 130 %

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

Comments:

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

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

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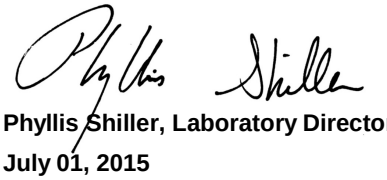

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 01, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/18/15	14:46
Location Code:	F&O-PCB	Received by:	SW	06/18/15	15:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ33419
Phoenix ID: BJ33437

Project ID: ANOCOIL
Client ID: 1251150618-047

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/18/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150618-047

Trip Blank - low

Phoenix I.D.: BJ33437

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/23/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/23/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/23/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/23/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/23/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	06/23/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	06/23/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150618-047 Trip Blank - low

Phoenix I.D.: BJ33437

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	06/23/15	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/23/15	JLI	70 - 130 %

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

Comments:

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

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

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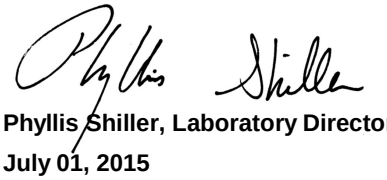

Phyllis Shiller, Laboratory Director
July 01, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

July 16, 2015

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 311246 (mg/L), QC Sample No: BJ27743 (BJ33428, BJ33433)														
ICP Metals - SPLP Extraction														
Arsenic	BRL	0.004	<0.004	<0.004	NC	96.9	102	5.1	99.8	99.9	0.1	75 - 125	20	
Lead	BRL	0.010	0.183	0.175	4.50	97.2	102	4.8	97.4	99.0	1.6	75 - 125	20	
QA/QC Batch 312112 (mg/kg), QC Sample No: BJ32135 (BJ33425, BJ33434)														
ICP Metals - Soil														
Arsenic	BRL	0.67	1.6	1.22	NC	93.9	94.9	1.1	88.3	88.0	0.3	75 - 125	30	
Chromium	BRL	0.33	12.3	8.83	32.8	102	102	0.0	93.6	93.4	0.2	75 - 125	30	r
Lead	BRL	0.33	40.0	33.8	16.8	91.6	97.5	6.2	83.9	84.1	0.2	75 - 125	30	
QA/QC Batch 311304 (mg/kg), QC Sample No: BJ32808 (BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428, BJ33432, BJ33433)														
ICP Metals - Soil														
Arsenic	BRL	0.66	2.1	5.20	NC	95.6	94.0	1.7	93.4	81.8	13.2	75 - 125	30	
Barium	BRL	0.33	50.6	97.2	63.1	116	106	9.0	105	88.2	17.4	75 - 125	30	r
Cadmium	BRL	0.33	1.86	40.1	NC	96.1	96.0	0.1	91.3	82.5	10.1	75 - 125	30	
Chromium	BRL	0.33	12.0	19.3	46.6	106	105	0.9	99.3	87.3	12.9	75 - 125	30	r
Copper	BRL	0.33	19.9	17.6	12.3	110	103	6.6	105	91.3	14.0	75 - 125	30	
Lead	BRL	0.33	9.35	11.8	23.2	95.7	93.6	2.2	89.2	79.0	12.1	75 - 125	30	
Nickel	BRL	0.33	9.17	13.3	36.8	108	101	6.7	92.4	81.9	12.0	75 - 125	30	r
Selenium	BRL	1.3	<1.5	<1.4	NC	86.3	84.3	2.3	83.5	74.1	11.9	75 - 125	30	m
Silver	BRL	0.33	<0.39	<0.35	NC	98.7	99.6	0.9	101	90.0	11.5	75 - 125	30	
Zinc	BRL	0.33	30.0	58.0	63.6	96.4	95.1	1.4	57.0	85.7	40.2	75 - 125	30	m,r
QA/QC Batch 311308 (mg/kg), QC Sample No: BJ33419 (BJ33419)														
ICP Metals - Soil														
Arsenic	BRL	0.64	3.8	2.92	NC	94.6	96.4	1.9	84.2	87.1	3.4	75 - 125	30	
Barium	BRL	0.32	96.8	90.7	6.50	105	112	6.5	>130	112	NC	75 - 125	30	m
Cadmium	BRL	0.32	<0.34	<0.32	NC	93.0	93.0	0.0	85.5	85.1	0.5	75 - 125	30	
Chromium	BRL	0.32	912	802	12.8	103	106	2.9	NC	NC	NC	75 - 125	30	
Copper	BRL	0.32	76.0	65.8	14.4	103	104	1.0	104	108	3.8	75 - 125	30	
Lead	BRL	0.32	162	174	7.10	91.8	93.9	2.3	106	101	4.8	75 - 125	30	
Nickel	BRL	0.32	10.7	9.25	14.5	98.0	98.3	0.3	88.4	88.2	0.2	75 - 125	30	
Selenium	BRL	1.3	<1.3	<1.3	NC	83.5	83.1	0.5	77.8	79.4	2.0	75 - 125	30	
Silver	BRL	0.32	<0.34	<0.32	NC	99.2	101	1.8	95.4	95.8	0.4	75 - 125	30	
Zinc	BRL	0.32	171	141	19.2	93.8	95.5	1.8	107	93.4	13.6	75 - 125	30	
QA/QC Batch 311497 (mg/kg), QC Sample No: BJ33419 (BJ33419, BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428, BJ33432, BJ33433)														
Mercury - Soil	BRL	0.06	0.05	0.06	NC	101	90.0	11.5	118	105	11.7	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.: GBJ33419

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 313890 (mg/kg), QC Sample No: BJ33419 (BJ33419)														
Chromium, Hexavalent (SW3060 digestion) - Solid														
Hexavalent Cr	BRL	0.40	5.52	5.85	5.80	96.9						70 - 130	30	
Insoluble Cr						109			100			70 - 130	30	
Soluble Cr						100			116			70 - 130	30	
QA/QC Batch 311639 (mg/kg), QC Sample No: BJ33430 (BJ33430)														
Mercury - Soil	BRL	0.06	0.06	0.04	NC	117	121	3.4	116	119	2.6	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 311589 (mg/kg), QC Sample No: BJ34469 (BJ33430)														
ICP Metals - Soil														
Arsenic	BRL	0.67	5.5	5.43	1.30	104	99.4	4.5	93.8	92.4	1.5	75 - 125	30	
Barium	BRL	0.33	183	189	3.20	108	102	5.7	>130	106	NC	75 - 125	30	m
Cadmium	BRL	0.33	<0.38	<0.39	NC	100	95.5	4.6	90.8	89.3	1.7	75 - 125	30	
Chromium	BRL	0.33	62.5	62.8	0.50	106	104	1.9	94.1	96.1	2.1	75 - 125	30	
Copper	BRL	0.33	29.6	31.5	6.20	105	99.8	5.1	101	103	2.0	75 - 125	30	
Lead	BRL	0.33	22.9	27.9	19.7	101	95.7	5.4	92.9	90.2	2.9	75 - 125	30	
Nickel	BRL	0.33	25.6	26.8	4.60	101	97.8	3.2	91.1	92.5	1.5	75 - 125	30	
Selenium	BRL	1.3	<1.5	<1.6	NC	87.2	84.2	3.5	85.4	84.0	1.7	75 - 125	30	
Silver	BRL	0.33	<0.38	<0.39	NC	102	96.5	5.5	96.8	94.5	2.4	75 - 125	30	
Zinc	BRL	0.33	61.9	67.0	7.90	98.2	93.8	4.6	94.0	93.2	0.9	75 - 125	30	
QA/QC Batch 311649 (mg/L), QC Sample No: BJ34469 (BJ33419, BJ33420, BJ33421, BJ33424, BJ33427)														
ICP Metals - SPLP Extraction														
Arsenic	BRL	0.004	<0.004	<0.004	NC	99.9	101	1.1	102	101	1.0	75 - 125	20	
Barium	BRL	0.010	0.041	0.064	NC	103	102	1.0	100	102	2.0	75 - 125	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	100	100	0.0	100	100	0.0	75 - 125	20	
Lead	BRL	0.010	<0.010	<0.010	NC	100	100	0.0	99.1	99.1	0.0	75 - 125	20	

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

Environmental Laboratories, Inc.
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QA/QC Report

July 16, 2015

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 311686 (ug/kg), QC Sample No: BJ32554 (BJ33421, BJ33422, BJ33424, BJ33427, BJ33433 (50X) , BJ33436 (50X) , BJ33437)											
Volatiles - Solid											
1,1,1,2-Tetrachloroethane	ND	5.0	104	107	2.8	109	105	3.7	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	105	2.9	107	103	3.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	104	105	1.0	106	106	0.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	97	100	3.0	101	97	4.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	105	95	10.0	93	89	4.4	70 - 130	30	
1,1-Dichloroethene	ND	5.0	103	106	2.9	78	76	2.6	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	103	4.0	106	103	2.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	94	101	7.2	102	106	3.8	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	101	102	1.0	106	99	6.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	90	99	9.5	103	106	2.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	94	100	6.2	103	100	3.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	108	109	0.9	103	107	3.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	106	1.9	107	103	3.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	95	100	5.1	103	101	2.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	98	101	3.0	101	97	4.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	98	102	4.0	102	99	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	99	105	5.9	107	105	1.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	92	99	7.3	103	101	2.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	102	104	1.9	106	102	3.8	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	90	97	7.5	103	100	3.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	99	103	4.0	103	100	3.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	98	102	4.0	106	102	3.8	70 - 130	30	
2-Hexanone	ND	25	100	99	1.0	101	99	2.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	103	108	4.7	110	107	2.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	94	99	5.2	103	101	2.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	103	100	3.0	100	99	1.0	70 - 130	30	
Acetone	ND	10	84	82	2.4	67	66	1.5	70 - 130	30	m
Acrylonitrile	ND	5.0	103	99	4.0	103	101	2.0	70 - 130	30	
Benzene	ND	1.0	100	103	3.0	105	102	2.9	70 - 130	30	
Bromobenzene	ND	5.0	97	101	4.0	102	101	1.0	70 - 130	30	
Bromochloromethane	ND	5.0	102	105	2.9	104	100	3.9	70 - 130	30	
Bromodichloromethane	ND	5.0	106	108	1.9	107	104	2.8	70 - 130	30	
Bromoform	ND	5.0	111	113	1.8	110	107	2.8	70 - 130	30	
Bromomethane	ND	5.0	91	97	6.4	48	53	9.9	70 - 130	30	m
Carbon Disulfide	ND	5.0	110	115	4.4	85	83	2.4	70 - 130	30	
Carbon tetrachloride	ND	5.0	103	106	2.9	103	99	4.0	70 - 130	30	
Chlorobenzene	ND	5.0	98	102	4.0	106	102	3.8	70 - 130	30	
Chloroethane	ND	5.0	88	93	5.5	26	25	3.9	70 - 130	30	m
Chloroform	ND	5.0	99	103	4.0	94	90	4.3	70 - 130	30	
Chloromethane	ND	5.0	84	87	3.5	93	87	6.7	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,2-Dichloroethene	ND	5.0	104	103	1.0	108	104	3.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	106	109	2.8	110	106	3.7	70 - 130	30	
Dibromochloromethane	ND	3.0	111	114	2.7	113	108	4.5	70 - 130	30	
Dibromomethane	ND	5.0	101	102	1.0	101	98	3.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	87	92	5.6	98	95	3.1	70 - 130	30	
Ethylbenzene	ND	1.0	101	105	3.9	111	106	4.6	70 - 130	30	
Hexachlorobutadiene	ND	5.0	93	105	12.1	114	112	1.8	70 - 130	30	
Isopropylbenzene	ND	1.0	101	105	3.9	108	104	3.8	70 - 130	30	
m&p-Xylene	ND	2.0	100	104	3.9	110	105	4.7	70 - 130	30	
Methyl ethyl ketone	ND	5.0	87	87	0.0	88	88	0.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	105	1.9	99	94	5.2	70 - 130	30	
Methylene chloride	ND	5.0	93	97	4.2	93	89	4.4	70 - 130	30	
Naphthalene	ND	5.0	110	113	2.7	107	113	5.5	70 - 130	30	
n-Butylbenzene	ND	1.0	90	101	11.5	106	104	1.9	70 - 130	30	
n-Propylbenzene	ND	1.0	91	97	6.4	101	98	3.0	70 - 130	30	
o-Xylene	ND	2.0	103	106	2.9	112	107	4.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	105	6.9	109	106	2.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	101	107	5.8	111	108	2.7	70 - 130	30	
Styrene	ND	5.0	102	106	3.8	111	105	5.6	70 - 130	30	
tert-Butylbenzene	ND	1.0	103	107	3.8	108	106	1.9	70 - 130	30	
Tetrachloroethene	ND	5.0	95	102	7.1	111	107	3.7	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	101	98	3.0	99	98	1.0	70 - 130	30	
Toluene	ND	1.0	98	102	4.0	106	101	4.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	103	107	3.8	104	99	4.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	108	111	2.7	111	106	4.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	112	110	1.8	108	108	0.0	70 - 130	30	
Trichloroethene	ND	5.0	100	104	3.9	107	104	2.8	70 - 130	30	
Trichlorofluoromethane	ND	5.0	96	100	4.1	18	18	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	100	105	4.9	84	81	3.6	70 - 130	30	
Vinyl chloride	ND	5.0	99	103	4.0	115	111	3.5	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	102	101	1.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	94	%	101	101	0.0	101	100	1.0	70 - 130	30	
% Dibromofluoromethane	99	%	99	102	3.0	98	97	1.0	70 - 130	30	
% Toluene-d8	99	%	100	100	0.0	99	100	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 311161 (ug/kg), QC Sample No: BJ32930 (BJ33419, BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	230	78	78	0.0	79	79	0.0	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	74	74	0.0	76	76	0.0	30 - 130	30	
1,2-Dichlorobenzene	ND	230	70	70	0.0	73	72	1.4	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	81	83	2.4	82	82	0.0	30 - 130	30	
1,3-Dichlorobenzene	ND	230	68	68	0.0	70	69	1.4	30 - 130	30	
1,4-Dichlorobenzene	ND	230	69	69	0.0	72	71	1.4	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	96	94	2.1	94	94	0.0	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	94	94	0.0	95	94	1.1	30 - 130	30	
2,4-Dichlorophenol	ND	130	83	83	0.0	84	84	0.0	30 - 130	30	
2,4-Dimethylphenol	ND	230	78	78	0.0	77	76	1.3	30 - 130	30	
2,4-Dinitrophenol	ND	230	51	42	19.4	34	32	6.1	30 - 130	30	
2,4-Dinitrotoluene	ND	130	95	95	0.0	94	94	0.0	30 - 130	30	
2,6-Dinitrotoluene	ND	130	95	95	0.0	94	94	0.0	30 - 130	30	
2-Chloronaphthalene	ND	230	84	84	0.0	84	85	1.2	30 - 130	30	

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Chlorophenol	ND	230	81	80	1.2	84	83	1.2	30 - 130	30	
2-Methylnaphthalene	ND	230	79	80	1.3	76	75	1.3	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	82	81	1.2	85	84	1.2	30 - 130	30	
2-Nitroaniline	ND	670	91	90	1.1	84	85	1.2	30 - 130	30	
2-Nitrophenol	ND	230	74	75	1.3	77	76	1.3	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	84	83	1.2	86	85	1.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	88	91	3.4	84	86	2.4	30 - 130	30	
3-Nitroaniline	ND	670	91	90	1.1	84	85	1.2	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	170	75	67	11.3	84	82	2.4	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	92	91	1.1	90	90	0.0	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	86	87	1.2	87	86	1.2	30 - 130	30	
4-Chloroaniline	ND	230	57	58	1.7	56	54	3.6	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	87	86	1.2	86	87	1.2	30 - 130	30	
4-Nitroaniline	ND	670	95	96	1.0	93	96	3.2	30 - 130	30	
4-Nitrophenol	ND	230	95	93	2.1	90	92	2.2	30 - 130	30	
Acenaphthene	ND	230	86	86	0.0	79	79	0.0	30 - 130	30	
Acenaphthylene	ND	230	82	83	1.2	83	83	0.0	30 - 130	30	
Acetophenone	ND	230	81	80	1.2	84	83	1.2	30 - 130	30	
Aniline	ND	970	56	56	0.0	49	50	2.0	30 - 130	30	
Anthracene	ND	230	90	91	1.1	67	68	1.5	30 - 130	30	
Benz(a)anthracene	ND	230	93	93	0.0	62	60	3.3	30 - 130	30	
Benzidine	ND	330	18	28	43.5	<10	<10	NC	30 - 130	30	l,m,r
Benzo(a)pyrene	ND	230	93	93	0.0	70	68	2.9	30 - 130	30	
Benzo(b)fluoranthene	ND	230	95	94	1.1	82	79	3.7	30 - 130	30	
Benzo(ghi)perylene	ND	230	94	95	1.1	84	79	6.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	89	89	0.0	64	64	0.0	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
Benzyl butyl phthalate	ND	230	100	98	2.0	97	96	1.0	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	81	82	1.2	81	82	1.2	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	77	73	5.3	76	75	1.3	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	68	68	0.0	70	70	0.0	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	100	99	1.0	97	97	0.0	30 - 130	30	
Carbazole	ND	500	91	91	0.0	79	80	1.3	30 - 130	30	
Chrysene	ND	230	94	95	1.1	57	56	1.8	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	103	103	0.0	104	101	2.9	30 - 130	30	
Dibenzofuran	ND	230	84	85	1.2	79	79	0.0	30 - 130	30	
Diethyl phthalate	ND	230	88	87	1.1	87	87	0.0	30 - 130	30	
Dimethylphthalate	ND	230	88	87	1.1	87	87	0.0	30 - 130	30	
Di-n-butylphthalate	ND	230	94	95	1.1	90	91	1.1	30 - 130	30	
Di-n-octylphthalate	ND	230	115	113	1.8	114	112	1.8	30 - 130	30	
Fluoranthene	ND	230	92	92	0.0	47	44	6.6	30 - 130	30	
Fluorene	ND	230	86	86	0.0	78	77	1.3	30 - 130	30	
Hexachlorobenzene	ND	130	90	89	1.1	88	89	1.1	30 - 130	30	
Hexachlorobutadiene	ND	230	72	74	2.7	73	74	1.4	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	76	75	1.3	64	59	8.1	30 - 130	30	
Hexachloroethane	ND	130	65	67	3.0	68	67	1.5	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	105	105	0.0	93	88	5.5	30 - 130	30	
Isophorone	ND	130	74	75	1.3	76	76	0.0	30 - 130	30	
Naphthalene	ND	230	72	73	1.4	67	68	1.5	30 - 130	30	
Nitrobenzene	ND	130	76	76	0.0	80	78	2.5	30 - 130	30	
N-Nitrosodimethylamine	ND	230	69	67	2.9	74	73	1.4	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	79	78	1.3	82	80	2.5	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	87	85	2.3	87	87	0.0	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Pentachloronitrobenzene	ND	230	97	97	0.0	95	96	1.0	30 - 130	30	
Pentachlorophenol	ND	230	92	90	2.2	85	87	2.3	30 - 130	30	
Phenanthrene	ND	230	88	89	1.1	<10	<10	NC	30 - 130	30	m
Phenol	ND	230	84	82	2.4	87	85	2.3	30 - 130	30	
Pyrene	ND	230	92	92	0.0	46	44	4.4	30 - 130	30	
Pyridine	ND	230	51	51	0.0	58	57	1.7	30 - 130	30	
% 2,4,6-Tribromophenol	66	%	92	92	0.0	92	92	0.0	30 - 130	30	
% 2-Fluorobiphenyl	55	%	81	80	1.2	78	81	3.8	30 - 130	30	
% 2-Fluorophenol	46	%	79	78	1.3	81	80	1.2	30 - 130	30	
% Nitrobenzene-d5	51	%	74	73	1.4	77	76	1.3	30 - 130	30	
% Phenol-d5	51	%	84	81	3.6	86	85	1.2	30 - 130	30	
% Terphenyl-d14	61	%	87	86	1.2	79	80	1.3	30 - 130	30	

Comment:

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

QA/QC Batch 311298 (mg/kg), QC Sample No: BJ33228 10X (BJ33433)

Polychlorinated Biphenyls - Solid

PCB-1016	ND	0.17	84	82	2.4	86	82	4.8	40 - 140	30	
PCB-1221	ND	0.17							40 - 140	30	
PCB-1232	ND	0.17							40 - 140	30	
PCB-1242	ND	0.17							40 - 140	30	
PCB-1248	ND	0.17							40 - 140	30	
PCB-1254	ND	0.17							40 - 140	30	
PCB-1260	ND	0.17	94	89	5.5	94	90	4.3	40 - 140	30	
PCB-1262	ND	0.17							40 - 140	30	
PCB-1268	ND	0.17							40 - 140	30	
% DCBP (Surrogate Rec)	99	%	101	95	6.1	100	97	3.0	30 - 150	30	
% TCMX (Surrogate Rec)	90	%	90	88	2.2	93	88	5.5	30 - 150	30	

QA/QC Batch 311563 (ug/kg), QC Sample No: BJ33420 (BJ33419, BJ33420 (1X, 50X))

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	119	116	2.6	85	85	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	115	111	3.5	86	84	2.4	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	113	109	3.6	79	80	1.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	116	112	3.5	87	86	1.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	116	112	3.5	86	81	6.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	119	114	4.3	61	61	0.0	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	119	114	4.3	86	86	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	111	109	1.8	74	79	6.5	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	106	103	2.9	80	81	1.2	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	111	110	0.9	74	78	5.3	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	107	105	1.9	79	79	0.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	113	110	2.7	78	80	2.5	70 - 130	30	
1,2-Dibromoethane	ND	5.0	117	114	2.6	84	84	0.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	109	106	2.8	79	79	0.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	117	112	4.4	84	84	0.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	116	112	3.5	85	84	1.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	112	108	3.6	80	80	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	111	108	2.7	78	78	0.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	114	111	2.7	83	83	0.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	109	106	2.8	78	78	0.0	70 - 130	30	
2,2-Dichloropropane	ND	5.0	117	111	5.3	82	81	1.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	111	107	3.7	79	79	0.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2-Hexanone	ND	25	95	92	3.2	73	73	0.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	116	113	2.6	81	80	1.2	70 - 130	30	
4-Chlorotoluene	ND	5.0	110	107	2.8	78	78	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	110	103	6.6	83	82	1.2	70 - 130	30	
Acetone	ND	10	82	78	5.0	52	49	5.9	70 - 130	30	m
Acrylonitrile	ND	5.0	113	106	6.4	83	82	1.2	70 - 130	30	
Benzene	ND	1.0	118	113	4.3	85	85	0.0	70 - 130	30	
Bromobenzene	ND	5.0	109	107	1.9	79	79	0.0	70 - 130	30	
Bromochloromethane	ND	5.0	117	114	2.6	87	85	2.3	70 - 130	30	
Bromodichloromethane	ND	5.0	126	122	3.2	87	86	1.2	70 - 130	30	
Bromoform	ND	5.0	126	122	3.2	84	86	2.4	70 - 130	30	
Bromomethane	ND	5.0	106	104	1.9	42	50	17.4	70 - 130	30	m
Carbon Disulfide	ND	5.0	131	126	3.9	61	63	3.2	70 - 130	30	l,m
Carbon tetrachloride	ND	5.0	119	114	4.3	82	82	0.0	70 - 130	30	
Chlorobenzene	ND	5.0	112	109	2.7	83	83	0.0	70 - 130	30	
Chloroethane	ND	5.0	102	98	4.0	23	23	0.0	70 - 130	30	m
Chloroform	ND	5.0	112	108	3.6	77	75	2.6	70 - 130	30	
Chloromethane	ND	5.0	98	95	3.1	85	84	1.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	120	110	8.7	82	81	1.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	128	122	4.8	85	86	1.2	70 - 130	30	
Dibromochloromethane	ND	3.0	126	123	2.4	84	85	1.2	70 - 130	30	
Dibromomethane	ND	5.0	120	114	5.1	86	86	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	110	105	4.7	89	86	3.4	70 - 130	30	
Ethylbenzene	ND	1.0	115	111	3.5	84	84	0.0	70 - 130	30	
Hexachlorobutadiene	ND	5.0	115	112	2.6	84	85	1.2	70 - 130	30	
Isopropylbenzene	ND	1.0	110	106	3.7	80	80	0.0	70 - 130	30	
m&p-Xylene	ND	2.0	114	110	3.6	84	84	0.0	70 - 130	30	
Methyl ethyl ketone	ND	5.0	99	93	6.3	73	72	1.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	119	115	3.4	81	79	2.5	70 - 130	30	
Methylene chloride	ND	5.0	89	86	3.4	62	61	1.6	70 - 130	30	m
Naphthalene	ND	5.0	110	108	1.8	85	89	4.6	70 - 130	30	
n-Butylbenzene	ND	1.0	111	108	2.7	78	79	1.3	70 - 130	30	
n-Propylbenzene	ND	1.0	105	101	3.9	80	79	1.3	70 - 130	30	
o-Xylene	ND	2.0	115	112	2.6	84	84	0.0	70 - 130	30	
p-Isopropyltoluene	ND	1.0	113	110	2.7	80	80	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	115	112	2.6	81	81	0.0	70 - 130	30	
Styrene	ND	5.0	116	113	2.6	85	85	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	112	108	3.6	81	81	0.0	70 - 130	30	
Tetrachloroethene	ND	5.0	121	115	5.1	88	86	2.3	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	109	102	6.6	80	78	2.5	70 - 130	30	
Toluene	ND	1.0	117	112	4.4	85	85	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	120	116	3.4	82	80	2.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	131	125	4.7	87	87	0.0	70 - 130	30	l
trans-1,4-dichloro-2-butene	ND	5.0	128	123	4.0	84	84	0.0	70 - 130	30	
Trichloroethene	ND	5.0	121	115	5.1	88	88	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	112	108	3.6	16	16	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	121	116	4.2	67	70	4.4	70 - 130	30	m
Vinyl chloride	ND	5.0	116	109	6.2	94	93	1.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	101	%	100	100	0.0	100	100	0.0	70 - 130	30	
% Bromofluorobenzene	94	%	101	102	1.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	94	%	96	95	1.0	95	94	1.1	70 - 130	30	
% Toluene-d8	99	%	100	99	1.0	99	99	0.0	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.											
QA/QC Batch 311804 (ug/kg), QC Sample No: BJ33428 (BJ33424 (50X) , BJ33428 (1X, 50X))											
Volatiles - Solid											
1,1,1,2-Tetrachloroethane	ND	5.0	105	104	1.0	89	101	12.6	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	102	102	0.0	86	96	11.0	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	104	1.9	90	99	9.5	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	97	96	1.0	84	94	11.2	70 - 130	30	
1,1-Dichloroethane	ND	5.0	111	108	2.7	77	85	9.9	70 - 130	30	
1,1-Dichloroethene	ND	5.0	101	101	0.0	62	63	1.6	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	100	100	0.0	85	96	12.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	103	104	1.0	84	99	16.4	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	104	100	3.9	85	92	7.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	105	105	0.0	86	101	16.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	100	100	0.0	84	95	12.3	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	107	104	2.8	87	95	8.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	104	104	0.0	89	98	9.6	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	100	99	1.0	86	96	11.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	98	97	1.0	83	93	11.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	98	1.0	84	95	12.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	104	104	0.0	88	99	11.8	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	100	99	1.0	86	96	11.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	102	101	1.0	88	98	10.8	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	99	98	1.0	85	95	11.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	103	103	0.0	84	93	10.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	102	102	0.0	86	97	12.0	70 - 130	30	
2-Hexanone	ND	25	99	97	2.0	85	92	7.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	106	106	0.0	89	100	11.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	100	100	0.0	85	95	11.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	99	96	3.1	86	94	8.9	70 - 130	30	
Acetone	ND	10	85	83	2.4	61	61	0.0	70 - 130	30	m
Acrylonitrile	ND	5.0	103	100	3.0	87	94	7.7	70 - 130	30	
Benzene	ND	1.0	99	99	0.0	86	97	12.0	70 - 130	30	
Bromobenzene	ND	5.0	101	99	2.0	85	95	11.1	70 - 130	30	
Bromochloromethane	ND	5.0	103	102	1.0	87	96	9.8	70 - 130	30	
Bromodichloromethane	ND	5.0	105	105	0.0	89	99	10.6	70 - 130	30	
Bromoform	ND	5.0	112	109	2.7	92	103	11.3	70 - 130	30	
Bromomethane	ND	5.0	83	83	0.0	36	46	24.4	70 - 130	30	m
Carbon Disulfide	ND	5.0	109	107	1.9	66	69	4.4	70 - 130	30	m
Carbon tetrachloride	ND	5.0	100	101	1.0	84	90	6.9	70 - 130	30	
Chlorobenzene	ND	5.0	100	100	0.0	87	97	10.9	70 - 130	30	
Chloroethane	ND	5.0	88	88	0.0	21	23	9.1	70 - 130	30	m
Chloroform	ND	5.0	99	98	1.0	76	85	11.2	70 - 130	30	
Chloromethane	ND	5.0	82	81	1.2	72	78	8.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	104	100	3.9	84	93	10.2	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	108	108	0.0	91	103	12.4	70 - 130	30	
Dibromochloromethane	ND	3.0	112	110	1.8	92	104	12.2	70 - 130	30	
Dibromomethane	ND	5.0	100	100	0.0	85	94	10.1	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	83	82	1.2	71	80	11.9	70 - 130	30	
Ethylbenzene	ND	1.0	104	103	1.0	90	102	12.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	105	107	1.9	92	105	13.2	70 - 130	30	
Isopropylbenzene	ND	1.0	104	104	0.0	87	99	12.9	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
m&p-Xylene	ND	2.0	103	102	1.0	90	101	11.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	86	84	2.4	73	78	6.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	101	2.0	85	92	7.9	70 - 130	30	
Methylene chloride	ND	5.0	96	93	3.2	97	102	5.0	70 - 130	30	
Naphthalene	ND	5.0	112	113	0.9	91	105	14.3	70 - 130	30	
n-Butylbenzene	ND	1.0	103	103	0.0	87	97	10.9	70 - 130	30	
n-Propylbenzene	ND	1.0	97	97	0.0	81	91	11.6	70 - 130	30	
o-Xylene	ND	2.0	105	105	0.0	92	103	11.3	70 - 130	30	
p-Isopropyltoluene	ND	1.0	106	105	0.9	89	100	11.6	70 - 130	30	
sec-Butylbenzene	ND	1.0	106	106	0.0	89	101	12.6	70 - 130	30	
Styrene	ND	5.0	104	104	0.0	91	101	10.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	104	104	0.0	87	99	12.9	70 - 130	30	
Tetrachloroethene	ND	5.0	101	101	0.0	88	99	11.8	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	99	97	2.0	84	88	4.7	70 - 130	30	
Toluene	ND	1.0	98	99	1.0	87	98	11.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	104	102	1.9	86	94	8.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	110	109	0.9	93	103	10.2	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	113	111	1.8	93	101	8.2	70 - 130	30	
Trichloroethene	ND	5.0	100	102	2.0	87	97	10.9	70 - 130	30	
Trichlorofluoromethane	ND	5.0	94	93	1.1	15	16	6.5	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	102	99	3.0	65	68	4.5	70 - 130	30	m
Vinyl chloride	ND	5.0	98	96	2.1	91	102	11.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	101	100	1.0	102	100	2.0	70 - 130	30	
% Bromofluorobenzene	95	%	99	100	1.0	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	99	%	101	101	0.0	101	100	1.0	70 - 130	30	
% Toluene-d8	100	%	99	100	1.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 311571 (mg/Kg), QC Sample No: BJ33430 (BJ33430)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	73	73	0.0	60	64	6.5	30 - 130	30	
% n-Pentacosane	76	%	86	83	3.6	65	70	7.4	50 - 150	30	

QA/QC Batch 311570 (ug/kg), QC Sample No: BJ33430 (BJ33430)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230	95	96	1.0	79	93	16.3	30 - 130	30	
Acenaphthene	ND	230	88	89	1.1	69	85	20.8	30 - 130	30	
Acenaphthylene	ND	230	86	89	3.4	71	84	16.8	30 - 130	30	
Anthracene	ND	230	94	95	1.1	75	88	16.0	30 - 130	30	
Benz(a)anthracene	ND	230	95	98	3.1	77	89	14.5	30 - 130	30	
Benzo(a)pyrene	ND	230	95	97	2.1	74	87	16.1	30 - 130	30	
Benzo(b)fluoranthene	ND	230	94	98	4.2	76	88	14.6	30 - 130	30	
Benzo(ghi)perylene	ND	230	91	94	3.2	57	67	16.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	95	95	0.0	72	84	15.4	30 - 130	30	
Chrysene	ND	230	96	98	2.1	74	89	18.4	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	92	94	2.2	60	69	14.0	30 - 130	30	
Fluoranthene	ND	230	97	97	0.0	81	94	14.9	30 - 130	30	
Fluorene	ND	230	92	95	3.2	73	89	19.8	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	96	99	3.1	62	72	14.9	30 - 130	30	
Naphthalene	ND	230	90	90	0.0	76	89	15.8	30 - 130	30	
Phenanthrene	ND	230	93	94	1.1	75	87	14.8	30 - 130	30	
Pyrene	ND	230	97	95	2.1	81	93	13.8	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
% 2-Fluorobiphenyl	81	%	84	85	1.2	69	78	12.2	30 - 130	30	
% Nitrobenzene-d5	75	%	86	86	0.0	74	88	17.3	30 - 130	30	
% Terphenyl-d14	89	%	91	92	1.1	74	84	12.7	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 311307 (ug/kg), QC Sample No: BJ33451 (BJ33432, BJ33433)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230	79	86	8.5	67	72	7.2	30 - 130	30	
Acenaphthene	ND	230	83	88	5.8	69	74	7.0	30 - 130	30	
Acenaphthylene	ND	230	80	86	7.2	68	72	5.7	30 - 130	30	
Anthracene	ND	230	87	93	6.7	73	76	4.0	30 - 130	30	
Benz(a)anthracene	ND	230	83	90	8.1	66	70	5.9	30 - 130	30	
Benzo(a)pyrene	ND	230	88	95	7.7	65	70	7.4	30 - 130	30	
Benzo(b)fluoranthene	ND	230	92	99	7.3	70	76	8.2	30 - 130	30	
Benzo(ghi)perylene	ND	230	75	77	2.6	66	72	8.7	30 - 130	30	
Benzo(k)fluoranthene	ND	230	89	102	13.6	76	77	1.3	30 - 130	30	
Chrysene	ND	230	91	98	7.4	73	76	4.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	73	75	2.7	64	68	6.1	30 - 130	30	
Fluoranthene	ND	230	91	100	9.4	75	85	12.5	30 - 130	30	
Fluorene	ND	230	80	85	6.1	67	72	7.2	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	75	77	2.6	66	71	7.3	30 - 130	30	
Naphthalene	ND	230	76	82	7.6	65	69	6.0	30 - 130	30	
Phenanthrene	ND	230	86	93	7.8	68	73	7.1	30 - 130	30	
Pyrene	ND	230	96	107	10.8	79	89	11.9	30 - 130	30	
% 2-Fluorobiphenyl	79	%	78	86	9.8	70	70	0.0	30 - 130	30	
% Nitrobenzene-d5	66	%	64	71	10.4	57	58	1.7	30 - 130	30	
% Terphenyl-d14	65	%	94	108	13.9	85	86	1.2	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 311318 (mg/Kg), QC Sample No: BJ33521 (BJ33432, BJ33433)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	59	64	8.1	72	94	26.5	30 - 130	30	
% n-Pentacosane	75	%	61	69	12.3	87	121	32.7	50 - 150	30	r

QA/QC Batch 311975 (ug/kg), QC Sample No: BJ37180 (BJ33434)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230	66	72	8.7	78	80	2.5	30 - 130	30	
Acenaphthene	ND	230	67	75	11.3	83	84	1.2	30 - 130	30	
Acenaphthylene	ND	230	66	73	10.1	80	82	2.5	30 - 130	30	
Anthracene	ND	230	70	77	9.5	85	88	3.5	30 - 130	30	
Benz(a)anthracene	ND	230	71	79	10.7	87	88	1.1	30 - 130	30	
Benzo(a)pyrene	ND	230	69	76	9.7	83	84	1.2	30 - 130	30	
Benzo(b)fluoranthene	ND	230	69	76	9.7	87	88	1.1	30 - 130	30	
Benzo(ghi)perylene	ND	230	72	80	10.5	91	90	1.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	68	75	9.8	80	81	1.2	30 - 130	30	
Chrysene	ND	230	74	81	9.0	91	91	0.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	68	76	11.1	84	86	2.4	30 - 130	30	
Fluoranthene	ND	230	71	77	8.1	85	87	2.3	30 - 130	30	
Fluorene	ND	230	69	77	11.0	84	86	2.4	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	74	82	10.3	91	92	1.1	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Naphthalene	ND	230	60	66	9.5	72	73	1.4	30 - 130	30	
Phenanthrene	ND	230	70	77	9.5	84	86	2.4	30 - 130	30	
Pyrene	ND	230	71	77	8.1	86	89	3.4	30 - 130	30	
% 2-Fluorobiphenyl	76	%	56	71	23.6	80	74	7.8	30 - 130	30	
% Nitrobenzene-d5	64	%	51	65	24.1	71	67	5.8	30 - 130	30	
% Terphenyl-d14	91	%	62	76	20.3	87	82	5.9	30 - 130	30	

Comment:

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

QA/QC Batch 312230 (ug/kg), QC Sample No: BJ37245 (BJ33423, BJ33425)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	105	109	3.7	105	105	0.0	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	104	108	3.8	108	105	2.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	102	105	2.9	100	98	2.0	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	100	102	2.0	102	102	0.0	70 - 130	30	
1,1-Dichloroethane	ND	5.0	112	115	2.6	116	113	2.6	70 - 130	30	
1,1-Dichloroethene	ND	5.0	105	108	2.8	99	96	3.1	70 - 130	30	
1,1-Dichloropropene	ND	5.0	104	107	2.8	92	92	0.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	108	110	1.8	72	68	5.7	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	96	100	4.1	102	103	1.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	113	113	0.0	74	72	2.7	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	101	103	2.0	94	95	1.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	109	111	1.8	107	107	0.0	70 - 130	30	
1,2-Dibromoethane	ND	5.0	105	108	2.8	105	104	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	104	1.9	89	87	2.3	70 - 130	30	
1,2-Dichloroethane	ND	5.0	100	102	2.0	101	100	1.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	100	102	2.0	101	100	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	105	107	1.9	113	111	1.8	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	103	106	2.9	89	88	1.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	101	104	2.9	103	101	2.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	103	103	0.0	88	86	2.3	70 - 130	30	
2,2-Dichloropropane	ND	5.0	108	110	1.8	105	104	1.0	70 - 130	30	
2-Chlorotoluene	ND	5.0	102	103	1.0	97	96	1.0	70 - 130	30	
2-Hexanone	ND	25	96	101	5.1	50	51	2.0	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	106	109	2.8	99	98	1.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	103	103	0.0	92	90	2.2	70 - 130	30	
4-Methyl-2-pentanone	ND	25	97	100	3.0	72	73	1.4	70 - 130	30	
Acetone	ND	10	78	81	3.8	76	73	4.0	70 - 130	30	
Acrylonitrile	ND	5.0	98	102	4.0	84	83	1.2	70 - 130	30	
Benzene	ND	1.0	103	105	1.9	101	100	1.0	70 - 130	30	
Bromobenzene	ND	5.0	100	102	2.0	93	91	2.2	70 - 130	30	
Bromochloromethane	ND	5.0	104	108	3.8	106	105	0.9	70 - 130	30	
Bromodichloromethane	ND	5.0	110	111	0.9	106	105	0.9	70 - 130	30	
Bromoform	ND	5.0	114	118	3.4	106	106	0.0	70 - 130	30	
Bromomethane	ND	5.0	97	97	0.0	112	112	0.0	70 - 130	30	
Carbon Disulfide	ND	5.0	114	116	1.7	97	94	3.1	70 - 130	30	
Carbon tetrachloride	ND	5.0	105	108	2.8	105	103	1.9	70 - 130	30	
Chlorobenzene	ND	5.0	102	104	1.9	96	95	1.0	70 - 130	30	
Chloroethane	ND	5.0	93	95	2.1	105	103	1.9	70 - 130	30	
Chloroform	ND	5.0	101	103	2.0	104	102	1.9	70 - 130	30	
Chloromethane	ND	5.0	81	84	3.6	98	97	1.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	107	104	2.8	103	100	3.0	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ33419

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
cis-1,3-Dichloropropene	ND	5.0	112	116	3.5	100	99	1.0	70 - 130	30
Dibromochloromethane	ND	3.0	113	117	3.5	109	108	0.9	70 - 130	30
Dibromomethane	ND	5.0	103	106	2.9	105	103	1.9	70 - 130	30
Dichlorodifluoromethane	ND	5.0	83	85	2.4	99	98	1.0	70 - 130	30
Ethylbenzene	ND	1.0	106	108	1.9	86	85	1.2	70 - 130	30
Hexachlorobutadiene	ND	5.0	111	113	1.8	78	80	2.5	70 - 130	30
Isopropylbenzene	ND	1.0	103	106	2.9	89	89	0.0	70 - 130	30
m&p-Xylene	ND	2.0	105	108	2.8	94	94	0.0	70 - 130	30
Methyl ethyl ketone	ND	5.0	85	90	5.7	73	71	2.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	105	106	0.9	102	101	1.0	70 - 130	30
Methylene chloride	ND	5.0	93	94	1.1	95	93	2.1	70 - 130	30
Naphthalene	ND	5.0	112	116	3.5	98	97	1.0	70 - 130	30
n-Butylbenzene	ND	1.0	106	107	0.9	78	79	1.3	70 - 130	30
n-Propylbenzene	ND	1.0	98	100	2.0	81	80	1.2	70 - 130	30
o-Xylene	ND	2.0	106	110	3.7	105	104	1.0	70 - 130	30
p-Isopropyltoluene	ND	1.0	107	110	2.8	96	95	1.0	70 - 130	30
sec-Butylbenzene	ND	1.0	107	109	1.9	82	82	0.0	70 - 130	30
Styrene	ND	5.0	106	108	1.9	87	86	1.2	70 - 130	30
tert-Butylbenzene	ND	1.0	105	107	1.9	101	100	1.0	70 - 130	30
Tetrachloroethene	ND	5.0	109	113	3.6	104	102	1.9	70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	99	4.1	92	93	1.1	70 - 130	30
Toluene	ND	1.0	103	105	1.9	94	93	1.1	70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	106	107	0.9	103	101	2.0	70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	114	118	3.4	104	103	1.0	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	112	116	3.5	95	93	2.1	70 - 130	30
Trichloroethene	ND	5.0	105	109	3.7	104	103	1.0	70 - 130	30
Trichlorofluoromethane	ND	5.0	101	104	2.9	111	108	2.7	70 - 130	30
Trichlorotrifluoroethane	ND	5.0	103	106	2.9	108	105	2.8	70 - 130	30
Vinyl chloride	ND	5.0	103	105	1.9	105	102	2.9	70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	101	101	0.0	101	101	0.0	70 - 130	30
% Bromofluorobenzene	95	%	100	102	2.0	98	99	1.0	70 - 130	30
% Dibromofluoromethane	99	%	100	101	1.0	101	101	0.0	70 - 130	30
% Toluene-d8	100	%	99	101	2.0	99	100	1.0	70 - 130	30

Comment:

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

QA/QC Batch 312091 (mg/Kg), QC Sample No: BJ37924 (BJ33434)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	64	63	1.6	65	63	3.1	30 - 130	30
% n-Pentacosane	88	%	107	104	2.8	108	104	3.8	50 - 150	30

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 16, 2015

Sample Criteria Exceedences Report

GBJ33419 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ33420	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	350	310	100	100	ug/Kg
BJ33420	$8270-SMR	Bis(2-chloroethyl)ether	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	3900	1000	1000	ug/Kg
BJ33420	$8270-SMR	Bis(2-chloroethyl)ether	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	3900	1000	1000	ug/Kg
BJ33420	$8270-SMR	2-Chlorophenol	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Hexachloroethane	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Hexachlorobenzene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Hexachlorobenzene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Pentachlorophenol	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	3900	1000	1000	ug/Kg
BJ33420	$8270-SMR	Bis(2-ethylhexyl)phthalate	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Di-n-octylphthalate	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	2000	2000	ug/Kg
BJ33420	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2700	1000	1000	ug/Kg
BJ33420	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2700	1000	1000	ug/Kg
BJ33420	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	1790	38	400	400	mg/Kg
BJ33424	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	950	230	100	100	ug/Kg
BJ33424	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	18.4	0.8	10	10	mg/Kg
BJ33424	SPLP-CR	SPLP Chromium	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.290	0.010	0.05	0.05	mg/L
BJ33424	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.071	0.010	0.015	0.015	mg/L
BJ33427	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2000	260	1000	1000	ug/Kg
BJ33427	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2000	260	1000	1000	ug/Kg
BJ33427	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2500	260	1000	1000	ug/Kg
BJ33427	$8270-SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	260	1000	1000	ug/Kg
BJ33427	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	260	1000	1000	ug/Kg
BJ33427	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2500	260	1000	1000	ug/Kg
BJ33428	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1300	270	1000	1000	ug/Kg
BJ33428	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1100	270	1000	1000	ug/Kg
BJ33428	$8270-SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	270	1000	1000	ug/Kg
BJ33428	$8270-SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	270	1000	1000	ug/Kg
BJ33428	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.026	0.010	0.015	0.015	mg/L
BJ33432	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4400	250	4000	4000	ug/Kg
BJ33432	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3400	250	1000	1000	ug/Kg
BJ33432	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4100	250	1000	1000	ug/Kg
BJ33432	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4900	250	1000	1000	ug/Kg
BJ33432	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1500	250	1000	1000	ug/Kg
BJ33432	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3400	250	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBJ33419 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ33432	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4100	250	1000	1000	ug/Kg
BJ33432	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4900	250	1000	1000	ug/Kg
BJ33433	$8100SMR	Fluorene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	15000	3100	5600	5600	ug/Kg
BJ33433	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6300	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	34000	3100	4000	4000	ug/Kg
BJ33433	$8100SMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	32000	3100	5600	5600	ug/Kg
BJ33433	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5700	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	51000	3100	4000	4000	ug/Kg
BJ33433	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	5700	3100	1000	1000	ug/Kg
BJ33433	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	6300	3100	1000	1000	ug/Kg
BJ33433	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	10	10	ug/Kg
BJ33433	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	120	120	ug/Kg
BJ33433	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	54	54	ug/Kg
BJ33433	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	310	10	10	ug/Kg
BJ33433	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	8700	520	5600	5600	ug/Kg
BJ33433	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	200	200	ug/Kg
BJ33433	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	10	10	ug/Kg
BJ33433	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	10	10	ug/Kg
BJ33433	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	40	40	ug/Kg
BJ33433	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	11	11	ug/Kg
BJ33433	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	310	10	10	ug/Kg
BJ33433	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	80	80	ug/Kg
BJ33433	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	140	140	ug/Kg
BJ33433	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	10	10	ug/Kg
BJ33433	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	20	20	ug/Kg
BJ33433	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	100	100	ug/Kg
BJ33433	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	20	20	ug/Kg
BJ33433	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	520	20	20	ug/Kg
BJ33433	$8260MAR	1,2-Dibromo-3-chloropropane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	520	440	440	ug/Kg
BJ33433	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	520	7	7	ug/Kg
BJ33433	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	520	320	320	ug/Kg
BJ33433	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	13000	660	500	500	mg/Kg
BJ33433	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	13000	660	500	500	mg/Kg

Sample Criteria Exceedences Report

GBJ33419 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ33433	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	69.6	0.8	10	10	mg/Kg
BJ33433	SPLP-AS	SPLP Arsenic	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.038	0.004	0.01	0.01	mg/L
BJ33433	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.039	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ33419, BJ33420, BJ33421, BJ33422, BJ33423, BJ33424, BJ33425, BJ33427, BJ33428, BJ33430, BJ33432, BJ33433, BJ33434, BJ33436, BJ33437

Sampling Date(s): 6/18/2015

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: PAH 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Thursday, July 16, 2015

Printed Name: Ethan Lee

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 16, 2015

SDG I.D.: GBJ33419

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

BJ33425 - The client requested a short list of elements than the 6010 RCP list. Only Arsenic, Chromium, and Lead are reported as requested on the chain of custody.

BJ33434 - The client requested a short list of elements than the 6010 RCP list. Only Arsenic and Lead are reported as requested on the chain of custody.

BJ33430, BJ33432, BJ33433, BJ33434 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

BJ33420, BJ33433 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

BJ33433 - Sample(s) required a dilution for Volatiles due to the presence of target and/or non-target compounds. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

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

Instrument: Au-fid1 06/27/15-3 (BJ33434)

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (627A028_1) and contained the following outliers:
C36 (76.2%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/27/2015

Instrument: Au-fid1 07/08/15-1 (BJ33432)

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (708A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Keith Aloisa
Position: Chemist
Date: 7/8/2015

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July 16, 2015

SDG I.D.: GBJ33419

Instrument: Au-fid84 06/19/15-2 (BJ33432, BJ33433)

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (619A016_1) and contained the following outliers:
C36 (25.1%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/19/2015

Instrument: Au-fid84 06/22/15-1 (BJ33433)

Initial Calibration (FID84 - ETPH_413) - 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

As per section 7.2.3, a discrimination check standard was run (622A003A_1) and contained the following outliers: None.

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/22/2015

Instrument: Au-fid84 06/23/15-1 (BJ33430)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

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SDG I.D.: GBJ33419

Instrument: Au-fid84 06/24/15-2 (BJ33430)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624A017_1) and contained the following outliers:
C36 (75.2%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

Instrument: Au-xl2 06/23/15-1 (BJ33430)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-xl2 06/23/15-2 (BJ33430)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A016_1) and contained the following outliers:
C36 (22.1%L)

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SDG I.D.: GBJ33419

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

QC (Batch Specific)

---------- Sample No: BJ33430, QA/QC Batch: 311571 ----------

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: BJ33521, QA/QC Batch: 311318 ----------

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: BJ37924, QA/QC Batch: 312091 ----------

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.

Soil Hex Chromium Narration

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

Instrument: Spect 07/15/15-1 (BJ33419)

The initial calibration met criteria, the calibration "r" > 0.995

Three LCS solutions were evaluated and reported:
The hexavalent Chromium LCS does not require digestion and is used as a continuing calibration standard.
The insoluble and soluble spikes (LCS) monitor the performance of the extraction.
The insoluble and soluble matrix spikes monitor the effect of matrix on the recoveries of hexavalent chromium.
Some matrix spike recoveries may be outside of the acceptance criteria of 75-125, however the corresponding LCSs are within control. No further action is required, but a sample matrix bias is suspected.

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July 16, 2015

SDG I.D.: GBJ33419

Printed Name Kristina Hagelin
Position: Chemist
Date: 7/15/2015

QC (Batch Specific)

---------- Sample No: BJ33419, QA/QC Batch: 313890 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

Mercury Narration

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

Instrument: Merlin 06/22/15-1 (BJ33419, BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428, BJ33432, BJ33433)

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: 6/22/2015

Instrument: Merlin 06/23/15-1 (BJ33430)

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: 6/23/2015

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July 16, 2015

SDG I.D.: GBJ33419

QC (Batch Specific)

---------- Sample No: BJ33419, QA/QC Batch: 311497 ----------

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: BJ33430, QA/QC Batch: 311639 ----------

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 06/20/15-1 (BJ33419, BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428, BJ33432, BJ33433)

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: 6/20/2015

Instrument: Arcos 06/22/15-1 (BJ33419, BJ33420, BJ33421, BJ33424, BJ33427, BJ33428, BJ33433)

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: 6/22/2015

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RCP Certification Report

July 16, 2015

SDG I.D.: GBJ33419

Instrument: Arcos 06/23/15-1 (BJ33419, BJ33420, BJ33430)

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: 6/23/2015

Instrument: Arcos 06/29/15-1 (BJ33419, BJ33420, BJ33421, BJ33424, BJ33425, BJ33427, BJ33428, BJ33433, BJ33434)

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: 6/29/2015

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SDG I.D.: GBJ33419

QC (Batch Specific)

---------- Sample No: BJ27743, QA/QC Batch: 311246 ----------

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: BJ32135, QA/QC Batch: 312112 ----------

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: BJ32808, QA/QC Batch: 311304 ----------

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: BJ33419, QA/QC Batch: 311308 ----------

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: BJ34469, QA/QC Batch: 311589 ----------

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: BJ34469, QA/QC Batch: 311649 ----------

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.

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RCP Certification Report

July 16, 2015

SDG I.D.: GBJ33419

PAH Narration

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

QC Batch 311161 (Samples: BJ33419, BJ33420, BJ33421, BJ33422, BJ33424, BJ33427, BJ33428): -----

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. (Benzidine)

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

Instrument: Chem05 06/22/15-2 (BJ33430)

Initial Calibration Verification (CHEM05/BN_0615):
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 (CHEM05/0622_33-BN_0615):
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: 6/22/2015

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July 16, 2015

SDG I.D.: GBJ33419

QC (Batch Specific)

---------- Sample No: BJ32930, QA/QC Batch: 311161 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(18%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzidine(28%), Benzoic Acid(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Benzidine(43.5%)

---------- Sample No: BJ33430, QA/QC Batch: 311570 ----------

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: BJ33451, QA/QC Batch: 311307 ----------

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: BJ37180, QA/QC Batch: 311975 ----------

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-ecd5 06/19/15-1 (BJ33433)

The initial calibration (PC612AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC612BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner
Position: Chemist
Date: 6/19/2015

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July 16, 2015

SDG I.D.: GBJ33419

Instrument: Au-ecd8 06/22/15-1 (BJ33433)

The initial calibration (PC616AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC616BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds:
Samples: BJ33433
Preceding CC 622B025 - PCB 1016 (19%L)
Succeeding CC 622B037 - None.

Printed Name Adam Werner
Position: Chemist
Date: 6/22/2015

QC (Batch Specific)

---------- Sample No: BJ33228, QA/QC Batch: 311298 ----------

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? No.

See PAH Narration.

Instrument: Chem05 06/18/15-2 (BJ33419, BJ33422, BJ33427, BJ33428)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0618_04-SV_0615):
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: 2,4-dinitrophenol (35%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.056)[0.1], Hexachlorobenzene (.085)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/18/2015

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SDG I.D.: GBJ33419

Instrument: Chem05 06/19/15-1 (BJ33420, BJ33421)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0619_02-SV_0615):
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 (.053)[0.1], Hexachlorobenzene (.090)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/19/2015

Instrument: Chem05 06/22/15-1 (BJ33424, BJ33433)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0622_02-SV_0615):
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: 2,4-dinitrophenol (38%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.055)[0.1], Hexachlorobenzene (.090)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/22/2015

Instrument: Chem06 06/22/15-1 (BJ33420)

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/SV_0618):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0622_02-SV_0618):
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: 2,4-dinitrophenol (35%L)[30%]
The following compounds did not meet maximum % deviations: None.

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July 16, 2015

SDG I.D.: GBJ33419

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: 6/22/2015

Instrument: Chem06 06/27/15-1 (BJ33434)

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/SV_0626):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (23%), Benzidine (22%), Di-n-octylphthalate (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0627_02-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 (.063)[0.1], Hexachlorobenzene (.077)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/27/2015

Instrument: Chem19 06/18/15-1 (BJ33432)

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_0609):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (29%), 4,6-Dinitro-2-methylphenol (31%), Pentachlorophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM19/0618_04-SV_0609):
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: Benzidine (35%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.079)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/18/2015

Instrument: Chem19 06/19/15-1 (BJ33424, BJ33433)

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SDG I.D.: GBJ33419

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_0609):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (29%), 4,6-Dinitro-2-methylphenol (31%), Pentachlorophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM19/0619_02-SV_0609):
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: 2,4-dinitrophenol (31%L)[30%], Benzidine (39%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.074)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/19/2015

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July 16, 2015

SDG I.D.: GBJ33419

QC (Batch Specific)

---------- Sample No: BJ32930, QA/QC Batch: 311161 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Benzidine(18%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Benzidine(28%), Benzoic Acid(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Benzidine(43.5%)

---------- Sample No: BJ33430, QA/QC Batch: 311570 ----------

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: BJ33451, QA/QC Batch: 311307 ----------

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: BJ37180, QA/QC Batch: 311975 ----------

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 311563 (Samples: BJ33419, BJ33420): -----

The LCS and/or LCSD recovery for one or more analytes is above the method criteria. The MS and/or MSD recoveries are below the method criteria. The QC sample is not a project sample and this analyte was not reported in the samples, therefore no significant bias is suspected. (Carbon Disulfide)

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. (trans-1,3-Dichloropropene)

Instrument: Chem03 06/21/15-1 (BJ33419, BJ33420)

RCP Certification Report

July 16, 2015

SDG I.D.: GBJ33419

Initial Calibration Verification (CHEM03/VT-L0616):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (37%), Chloroethane (30%), Methylene Chloride (27%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0621L03-VT-L0616):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Methylene Chloride (35%H)[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 Jane Li
Position: Chemist
Date: 6/21/2015

Instrument: Chem03 06/22/15-2 (BJ33421, BJ33422, BJ33424, BJ33427, BJ33428, BJ33433, BJ33436, BJ33437)

Initial Calibration Verification (CHEM03/VT-L0622):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (27%), Chloroethane (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0622L43-VT-L0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/22/2015

Instrument: Chem03 06/23/15-1 (BJ33424, BJ33428)

Initial Calibration Verification (CHEM03/VT-L0622):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (27%), Chloroethane (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0623L02-VT-L0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 16, 2015

SDG I.D.: GBJ33419

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 Jane Li
Position: Chemist
Date: 6/23/2015

Instrument: Chem03 06/28/15-1 (BJ33423, BJ33425)

Initial Calibration Verification (CHEM03/VT-L0622):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (27%), Chloroethane (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0628L03-VT-L0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/28/2015

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 16, 2015

SDG I.D.: GBJ33419

QC (Batch Specific)

---------- Sample No: BJ32554, QA/QC Batch: 311686 ----------

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: BJ33420, QA/QC Batch: 311563 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Carbon Disulfide(131%), trans-1,3-Dichloropropene(131%)

All LCSD recoveries were within 70 - 130 with the following exceptions: None.

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

---------- Sample No: BJ33428, QA/QC Batch: 311804 ----------

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: BJ37245, QA/QC Batch: 312230 ----------

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 3°C.
(Note acceptance criteria is above freezing up to 6°C)

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

3° w/C+IP

CHAIN-OF-CUSTODY RECORD 33703

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other ____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	20014S4.P30	Phoenix

Report To: Kevin Vandervoer (F+O)
Invoice To: same.
~~P.O. No.~~: Quote # F0 040315BA
Sampler's Signature: _____ Date: 6/18/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: VOCs 8260	SVOCs 8270	CT ETPH	PAHs (8270)	RCRA 8 metals	Cu, Ni, Zn	Hold	Containers: Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
029					125115061S-029	S	6/18/15	0905	X	X			X	X			1	2	1									33419
030					-030			0920	X	X			X	X														33420
031					-031			0940	X	X			X	X														33421
032					-032			1010	X	X			X	X														33422
033					-033			1015	~~X~~	~~X~~			~~X~~	~~X~~	X													33423
					-034			1140	X	X			X	X														33424
					-035			1145							X													33425
					-036			1155							X													33426
					-037			1305	X	X			X	X														33427
					-038			1310	X	X			X	X														33428

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____	CParadise	6/18/15	1541
2				
3				
4				

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

Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC Res DEC of CT RSRs

Additional Comments:
duplicate Analyses (no charge) same as -029

3°w/c+ip

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- ☐ 56 Quarry Road, Trumbull, CT 06611
- ☐ 1419 Richland Street, Columbia, SC 29201
- ☐ 78 Interstate Drive, West Springfield, MA 01089
- ☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
- ☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
- ☐ Other _____

CHAIN-OF-CUSTODY RECORD 33704

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☑ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014S4.P30	Phoenix

REPORT TO: Kevin Vandervees (F+O)
INVOICE TO: same
~~P.O. No.~~ Quote: FO 04031SBA
Sampler's Signature: _____ Date: 6/18/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH	PAHs (8270)	RCRA 8 metals	Cu, Ni, Zn	PCBs (Soxhlet)	HOLD	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
039					125115061B-039	S	6/18/15	1315							X	1	2	1									33429
040					-040			1340							X			3				33430					MS/MSD
041					-041			1345							X			1									33431
042					-042			1415		X	X	X	X			1		1									33432
043					-043			1420	X	X	X	X	X	X		1	2	1									33433
044					-044			1425							X	1	2	1									33434
045					-045	↓		1430							X			1									33435
046					-046	X		1445	X							1											33436
047					-047	X	↓	1446	X								2										33437

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Claudine	6/18/15	1541
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
_____ Duplicates 2 Blanks (Item Nos: 46, 47)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC of CT RSRs
Additional Comments:

GBJ 33419

Shannon - Phoenixlabs

From: Bobbi - Phoenixlabs [bobbi@phoenixlabs.com]
Sent: Friday, June 26, 2015 12:35 PM
To: 'Shannon - Phoenixlabs'
Subject: FW: Anocoil - Additional Analyses (from 6/16 and 6/18)

can you please help and scan this too. thanks

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Kevin Vanderveer [mailto:KVanderveer@fando.com]
Sent: Friday, June 26, 2015 12:19 PM
To: bobbi@phoenixlabs.com
Cc: Brent Henebry; Sarah Rochelt
Subject: Anocoil - Additional Analyses (from 6/16 and 6/18)

Bobbi,

Would you please run the samples below. I noted the sample dates for hold time reference. I will be out of the office for a week. Could you please copy Brent Henebry and Sarah Rochelt on data notifications.

From 1/16/2015

- BJ32135 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, and zinc
- BJ32142 – ETPH, PAHs, RCRA 8 metals plus copper, nickel, and zinc
- BJ32157 – SPLP lead and selenium
- BJ32158 – PAHs

From 6/17/2015

- BJ33419 – SPLP chromium and lead
- BJ33420 – SPLP barium and lead
- BJ33421 – SPLP chromium
- BJ33423 – VOCs
- BJ33424 – SPLP arsenic, chromium, and lead
- BJ33425 – VOCs, arsenic, chromium, lead
- BJ33427 – SPLP lead
- BJ33428 – SPLP lead (duplicate)
- BJ33433 – SPLP arsenic and lead
- BJ33434 – ETPH, PAHs, arsenic, lead

Thank you,

GBJ 33419

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
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Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Monday, June 22, 2015 9:25 AM
To: bobbi@phoenixlabs.com
Subject: Anocoil - Addons from 6/18/2015

Bobbi,

Could you run BJ33430 for ETPH, PAH, RCRA 8 metals, copper, nickel, and zinc?

Thanks,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
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Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Tuesday, July 14, 2015 11:03 AM
To: bobbi@phoenixlabs.com
Cc: Paula M. Bibeau
Subject: Anocoil - Additional Analyses

Bobbi,

Can you run the following samples from Anocoil if you still have the samples:

- BJ35999 – SPLP chromium and lead; total hexavalent chromium if still within hold time
- BJ36000 – SPLP lead
- BJ33419 – Hexavalent chromium if still within hold time
- BJ34827 – Hexavalent chromium if still within hold time

I can't remember if the hold time for hexavalent chromium is shorter than regular metals. If it is out of hold time, don't analyze.

Thanks,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
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PHOENIX
Environmental Laboratories, Inc.

Friday, July 17, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ34817 - BJ34819, BJ34821 - BJ34829, BJ34832 - BJ34835

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED
By pbibeau at 12:00 pm, Jul 24, 2015
DMS

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 08, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ34817 - BJ34819, BJ34821 - BJ34829, BJ34832 - BJ34835

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.

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Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 2:09 pm, Jul 08, 2015

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 07, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ34817 - BJ34819, BJ34821 - BJ34829, BJ34832 - BJ34835

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 2:09 pm, Jul 08, 2015

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 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	9:05
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34817

Project ID: ANOCOIL
Client ID: 1251150622-048

SB-46 (0-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	170	58	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	105		%	1	06/23/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	06/23/15	DD	SW8270D
Anthracene	1500	270	ug/Kg	1	06/23/15	DD	SW8270D
Benz(a)anthracene	3800	270	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(a)pyrene	3000	270	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	3200	270	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(ghi)perylene	1400	270	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	2700	270	ug/Kg	1	06/23/15	DD	SW8270D
Chrysene	4000	270	ug/Kg	1	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	370	270	ug/Kg	1	06/23/15	DD	SW8270D
Fluoranthene	8100	1400	ug/Kg	5	06/23/15	DD	SW8270D
Fluorene	530	270	ug/Kg	1	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1600	270	ug/Kg	1	06/23/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	06/23/15	DD	SW8270D
Phenanthrene	6000	1400	ug/Kg	5	06/23/15	DD	SW8270D
Pyrene	7100	1400	ug/Kg	5	06/23/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150622-048

SB-46 (0-4')

Phoenix I.D.: BJ34817

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	74		%	1	06/23/15	DD	30 - 130 %

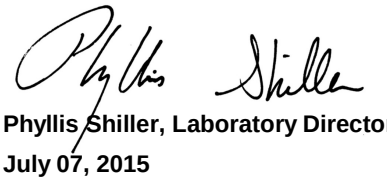
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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

If 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 07, 2015

Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	9:15
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34818

Project ID: ANOCOIL
Client ID: 1251150622-049

SB-46 (5-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	84		%		07/01/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/01/15	QJ/VH	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Anthracene	290	270	ug/Kg	1	07/02/15	DD	SW8270D
Benz(a)anthracene	540	270	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(a)pyrene	480	270	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(b)fluoranthene	630	270	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(ghi)perylene	350	270	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(k)fluoranthene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Chrysene	430	270	ug/Kg	1	07/02/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Fluoranthene	1200	270	ug/Kg	1	07/02/15	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	390	270	ug/Kg	1	07/02/15	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/02/15	DD	SW8270D
Phenanthrene	950	270	ug/Kg	1	07/02/15	DD	SW8270D
Pyrene	940	270	ug/Kg	1	07/02/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	07/02/15	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	07/02/15	DD	30 - 130 %
% Terphenyl-d14	92		%	1	07/02/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-049

SB-46 (5-7.5')

Phoenix I.D.: BJ34818

Parameter	Result	RL/ PQL	Units	Dilution	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.
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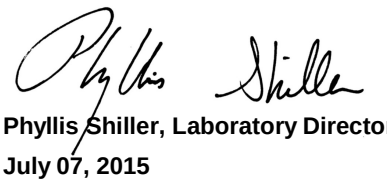

Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	9:30
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34819

Project ID: ANOCOIL SB-47 (5-6')
Client ID: 1251150622-050

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Aluminum	17700	57	mg/Kg	10	06/24/15	EK	SW6010C
Arsenic	3.6	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	186	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	19.7	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/24/15	RS	SW7471B
Lead	5.07	0.38	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	92		%		06/22/15	I	SW846-%Solid
pH - Soil	8.64	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	54	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	95		%	1	06/23/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-050

SB-47 (5-6')

Phoenix I.D.: BJ34819

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	26	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	06/25/15	JLI	SW8260
Methylene chloride	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.7	ug/Kg	1	06/25/15	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	114		%	1	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	87		%	1	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	97		%	1	06/25/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	88		%	1	06/23/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-050

SB-47 (5-6')

Phoenix I.D.: BJ34819

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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.
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Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	9:55
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34821

Project ID: ANOCOIL
Client ID: 1251150622-052

SB-48 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Aluminum	4310	59	mg/Kg	10	06/24/15	EK	SW6010C
Arsenic	14.6	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	88.8	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	72.0	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Mercury	0.06	0.03	mg/Kg	1	06/24/15	RS	SW7471B
Lead	66.8	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	83		%		06/22/15	I	SW846-%Solid
pH - Soil	7.05	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	3600	300	mg/Kg	5	06/24/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	5	06/24/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL SB-48 (5-7') Phoenix I.D.: BJ34821

Client ID: 1251150622-052

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	440	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	39	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	39	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	47	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	4.7	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	47	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	06/25/15	JLI	SW8260
Methylene chloride	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Naphthalene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-052

SB-48 (5-7')

Phoenix I.D.: BJ34821

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	450	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	900	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	7.8	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	3900	2800	ug/Kg	10	06/23/15	DD	SW8270D
Acenaphthene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Acenaphthylene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Anthracene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Benz(a)anthracene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Benzo(a)pyrene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Benzo(ghi)perylene	5100	2800	ug/Kg	10	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Chrysene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Fluoranthene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Fluorene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Naphthalene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Phenanthrene	ND	2800	ug/Kg	10	06/23/15	DD	SW8270D
Pyrene	21000	2800	ug/Kg	10	06/23/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	06/23/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	06/23/15	DD	30 - 130 %

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

TPH Comment:
**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.

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

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

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

July 07, 2015

Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	10:05
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34822

Project ID: ANOCOIL
Client ID: 1251150622-053

SB-48 (8-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	15.0	0.8	mg/Kg	1	07/02/15	LK	SW6010C
Percent Solid	82		%		07/01/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/01/15	QJ/VH	SW3545A
Extraction of CT ETPH	Completed				07/01/15	QJ/V	SW3545A
Total Metals Digest	Completed				07/01/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	60	mg/Kg	1	07/02/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/02/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	07/02/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150622-053

SB-48 (8-10')

Phoenix I.D.: BJ34822

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	81		%	1	07/02/15	DD	30 - 130 %
% Nitrobenzene-d5	79		%	1	07/02/15	DD	30 - 130 %
% Terphenyl-d14	100		%	1	07/02/15	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.
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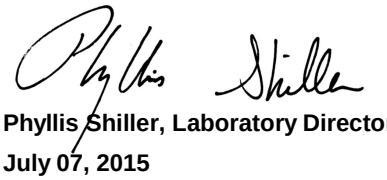

Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 08, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	11:05
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34823

Project ID: ANOCOIL
Client ID: 1251150622-054

SB-49 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		07/01/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/01/15	QJ/VH	SW3545A
Extraction of CT ETPH	Completed				07/01/15	QJ/V	SW3545A
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	07/02/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	07/02/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	07/02/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.2	ug/Kg	1	07/02/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,1-Dichloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,1-Dichloroethene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,1-Dichloropropene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dibromoethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,2-Dichlorobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dichloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,2-Dichloropropane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-054

SB-49 (6-8')

Phoenix I.D.: BJ34823

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
1,3-Dichloropropane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
1,4-Dichlorobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
2,2-Dichloropropane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
2-Chlorotoluene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	07/02/15	JLI	SW8260
2-Isopropyltoluene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
4-Chlorotoluene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	07/02/15	JLI	SW8260
Acetone	ND	32	ug/Kg	1	07/02/15	JLI	SW8260
Acrylonitrile	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Benzene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Bromobenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
Bromochloromethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Bromodichloromethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Bromoform	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Bromomethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Carbon Disulfide	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Carbon tetrachloride	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Chlorobenzene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Chloroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Chloroform	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Chloromethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Dibromochloromethane	ND	3.2	ug/Kg	1	07/02/15	JLI	SW8260
Dibromomethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Ethylbenzene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Hexachlorobutadiene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
Isopropylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
m&p-Xylene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Methyl Ethyl Ketone	ND	32	ug/Kg	1	07/02/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/02/15	JLI	SW8260
Methylene chloride	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Naphthalene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
n-Butylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
n-Propylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
o-Xylene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
p-Isopropyltoluene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
sec-Butylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
Styrene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
tert-Butylbenzene	ND	300	ug/Kg	50	07/02/15	JLI	SW8260
Tetrachloroethene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/02/15	JLI	SW8260
Toluene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Total Xylenes	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-054

SB-49 (6-8')

Phoenix I.D.: BJ34823

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	610	ug/Kg	50	07/02/15	JLI	SW8260
Trichloroethene	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Trichlorofluoromethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
Vinyl chloride	ND	5.3	ug/Kg	1	07/02/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	50	07/02/15	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	07/02/15	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	07/02/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/02/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthylene	400	260	ug/Kg	1	07/02/15	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Benz(a)anthracene	260	260	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(a)pyrene	300	260	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(b)fluoranthene	400	260	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(ghi)perylene	340	260	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Chrysene	280	260	ug/Kg	1	07/02/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Fluoranthene	490	260	ug/Kg	1	07/02/15	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	300	260	ug/Kg	1	07/02/15	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/02/15	DD	SW8270D
Phenanthrene	300	260	ug/Kg	1	07/02/15	DD	SW8270D
Pyrene	440	260	ug/Kg	1	07/02/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	90		%	1	07/02/15	DD	30 - 130 %
% Nitrobenzene-d5	87		%	1	07/02/15	DD	30 - 130 %
% Terphenyl-d14	106		%	1	07/02/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-054

SB-49 (6-8')

Phoenix I.D.: BJ34823

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

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

Comments:

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

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

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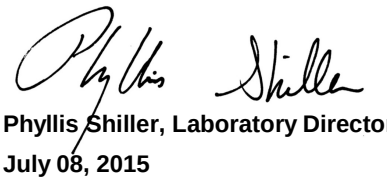

Phyllis Shiller, Laboratory Director
July 08, 2015
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	11:10
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34824

Project ID: ANOCOIL
Client ID: 1251150622-055

SB-49 (11-13')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.51	0.51	mg/Kg	1	06/23/15	EK	SW6010C
Aluminum	12000	77	mg/Kg	10	06/24/15	EK	SW6010C
Arsenic	4.9	1.0	mg/Kg	1	06/23/15	EK	SW6010C
Barium	66.4	0.51	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	0.61	0.51	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	112	0.51	mg/Kg	1	06/23/15	EK	SW6010C
Mercury	0.35	0.04	mg/Kg	1	06/24/15	RS	SW7471B
Lead	135	0.51	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 2.1	2.1	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	64		%		06/22/15	I	SW846-%Solid
pH - Soil	6.88	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	7500	780	mg/Kg	10	06/26/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	06/26/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	06/26/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	260	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-055

SB-49 (11-13')

Phoenix I.D.: BJ34824

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	280	280	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	2100	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	2100	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	2600	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	260	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	2600	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	860	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	7900	430	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-055

SB-49 (11-13')

Phoenix I.D.: BJ34824

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	170	150	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	860	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Total Xylenes	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	860	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	430	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	99		%	50	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	67000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Acenaphthene	ND	9100	ug/Kg	25	06/24/15	DD	SW8270D
Acenaphthylene	29000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Anthracene	30000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Benz(a)anthracene	19000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Benzo(a)pyrene	12000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	12000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Benzo(ghi)perylene	ND	9100	ug/Kg	25	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	ND	9100	ug/Kg	25	06/24/15	DD	SW8270D
Chrysene	19000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	9100	ug/Kg	25	06/24/15	DD	SW8270D
Fluoranthene	39000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Fluorene	24000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	9100	ug/Kg	25	06/24/15	DD	SW8270D
Naphthalene	45000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Phenanthrene	180000	9100	ug/Kg	25	06/24/15	DD	SW8270D
Pyrene	55000	9100	ug/Kg	25	06/24/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	25	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	25	06/24/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	25	06/24/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-055

SB-49 (11-13')

Phoenix I.D.: BJ34824

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	11:15
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34825

Project ID: ANOCOIL
Client ID: 1251150622-056

SB-49 (11-13') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.56	0.56	mg/Kg	1	06/23/15	EK	SW6010C
Aluminum	14000	84	mg/Kg	10	06/24/15	EK	SW6010C
Arsenic	4.2	1.1	mg/Kg	1	06/23/15	EK	SW6010C
Barium	75.4	0.56	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.56	0.56	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	38.2	0.56	mg/Kg	1	06/23/15	EK	SW6010C
Mercury	0.46	0.05	mg/Kg	1	06/24/15	RS	SW7471B
Lead	90.9	0.56	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 2.2	2.2	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	58		%		06/22/15	I	SW846-%Solid
pH - Soil	6.83	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	9000	850	mg/Kg	10	06/24/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	06/24/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	340	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-056

SB-49 (11-13') Field Duplicate

Phoenix I.D.: BJ34825

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	290	280	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	2800	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	2800	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	3400	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	340	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3400	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	1100	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	10000	560	ug/Kg	50	06/25/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	440	380	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	1100	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Total Xylenes	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1100	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	560	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	97		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	99		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	100		%	50	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	52000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Acenaphthene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Acenaphthylene	18000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Anthracene	18000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Benz(a)anthracene	8800	7900	ug/Kg	20	06/24/15	DD	SW8270D
Benzo(a)pyrene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Benzo(ghi)perylene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Chrysene	9000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Fluoranthene	17000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Fluorene	14000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	7900	ug/Kg	20	06/24/15	DD	SW8270D
Naphthalene	38000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Phenanthrene	100000	7900	ug/Kg	20	06/24/15	DD	SW8270D
Pyrene	25000	7900	ug/Kg	20	06/24/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	20	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	20	06/24/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	20	06/24/15	DD	30 - 130 %

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

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 07, 2015
Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/22/15	11:30
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34826

Project ID: ANOCOIL
Client ID: 1251150622-057

Equipment Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/27/15	LK	SW6010C/E200.7
Aluminum	< 0.010	0.010	mg/L	1	06/27/15	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/27/15	LK	SW6010C/E200.7
Barium	< 0.002	0.002	mg/L	1	06/27/15	LK	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	06/27/15	LK	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	06/27/15	LK	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	06/24/15	RS	SW7470/245.1
Lead	< 0.002	0.002	mg/L	1	06/27/15	LK	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	06/27/15	LK	SW6010C/E200.7
pH	6.41	0.10	pH Units	1	06/23/15 00:44	BS/EG	SM4500-H B-00
Extraction of CT ETPH	Completed				06/22/15	n/DW	SW3510C/SW3520C
Mercury Digestion	Completed				06/24/15	U/U	SW7470/245.1
PCB Extraction	Completed				06/22/15	L	SW3510C
Semi-Volatile Extraction	Completed				06/22/15	n/D	SW3520C
Total Metals Digestion	Completed				06/26/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.19	0.070	mg/L	1	06/23/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	06/23/15	JRB	50 - 150 %
Polychlorinated Biphenyls							
PCB-1016	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1221	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1232	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1242	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1248	ND	0.50	ug/L	1	06/24/15	AW	SW8082A

Project ID: ANOCOIL
Client ID: 1251150622-057

Equipment Blank

Phoenix I.D.: BJ34826

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1254	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1260	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1262	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
PCB-1268	ND	0.50	ug/L	1	06/24/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	60		%	1	06/24/15	AW	30 - 150 %
% TCMX	72		%	1	06/24/15	AW	30 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/23/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/23/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/23/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/23/15	MH	SW8260
Acetone	ND	25	ug/L	1	06/23/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/23/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/23/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/23/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/23/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/23/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-057

Equipment Blank

Phoenix I.D.: BJ34826

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/23/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/23/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/23/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/23/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/23/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/23/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/23/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/23/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/23/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/23/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/23/15	MH	70 - 130 %
% Bromofluorobenzene	92		%	1	06/23/15	MH	70 - 130 %
% Dibromofluoromethane	99		%	1	06/23/15	MH	70 - 130 %
% Toluene-d8	101		%	1	06/23/15	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/23/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1251150622-057

Equipment Blank

Phoenix I.D.: BJ34826

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	06/23/15	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.07	ug/L	1	06/23/15	DD	SW8270D (SIM)
Pyrene	ND	0.10	ug/L	1	06/23/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	45		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	94		%	1	06/23/15	DD	30 - 130 %

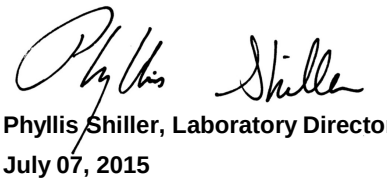
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C19. 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
July 07, 2015
Reviewed and Released by: Ethan Lee, 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

July 17, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	12:00
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34827

Project ID: ANOCOIL
Client ID: 1251150622-058

SB-50 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/23/15	EK	SW6010C
Aluminum	8310	56	mg/Kg	10	06/24/15	EK	SW6010C
Arsenic	14.6	0.7	mg/Kg	1	06/23/15	EK	SW6010C
Barium	85.1	0.37	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	0.48	0.37	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	337	3.7	mg/Kg	10	06/24/15	EK	SW6010C
Mercury	0.13	0.03	mg/Kg	1	06/24/15	RS	SW7471B
Lead	142	0.37	mg/Kg	1	06/23/15	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	83		%		06/22/15	I	SW846-%Solid
Chromium, Hexavalent	< 0.48	0.48	mg/Kg	1	07/15/15	KH	SW7196A
pH - Soil	7.10	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Redox Potential	492	1.0	mV	1	07/14/15	DH/EG	SM2580B-09
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	380	290	mg/Kg	5	06/24/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	78		%	5	06/24/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-058

SB-50 (6-8')

Phoenix I.D.: BJ34827

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.9	ug/Kg	1	06/25/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Methylene chloride	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Naphthalene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
n-Butylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	330	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.9	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	660	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	4.9	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	96		%	1	06/25/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	770	550	ug/Kg	2	06/23/15	DD	SW8270D
Acenaphthene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Acenaphthylene	760	550	ug/Kg	2	06/23/15	DD	SW8270D
Anthracene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Benz(a)anthracene	580	550	ug/Kg	2	06/23/15	DD	SW8270D
Benzo(a)pyrene	1100	550	ug/Kg	2	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	1100	550	ug/Kg	2	06/23/15	DD	SW8270D
Benzo(ghi)perylene	1700	550	ug/Kg	2	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Chrysene	690	550	ug/Kg	2	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Fluoranthene	850	550	ug/Kg	2	06/23/15	DD	SW8270D
Fluorene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	830	550	ug/Kg	2	06/23/15	DD	SW8270D
Naphthalene	ND	550	ug/Kg	2	06/23/15	DD	SW8270D
Phenanthrene	610	550	ug/Kg	2	06/23/15	DD	SW8270D
Pyrene	1600	550	ug/Kg	2	06/23/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	2	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	75		%	2	06/23/15	DD	30 - 130 %
% Terphenyl-d14	89		%	2	06/23/15	DD	30 - 130 %

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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

Hexavalent Chromium:
This sample is neither in a reducing or an oxidizing state.

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.
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Phyllis Shiller, Laboratory Director

July 17, 2015

Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	12:05
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34828

Project ID: ANOCOIL
Client ID: 1251150622-059

SB-50 (10-11')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	1.1	0.7	mg/Kg	1	07/02/15	LK	SW6010C
Chromium	17.8	0.37	mg/Kg	1	07/02/15	LK	SW6010C
Lead	1.57	0.37	mg/Kg	1	07/02/15	LK	SW6010C
Percent Solid	83		%		07/01/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/01/15	QJ/VH	SW3545A
Total Metals Digest	Completed				07/01/15	G/AG	SW3050B
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Fluoranthene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Phenanthrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
Pyrene	ND	280	ug/Kg	1	07/02/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	07/02/15	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	07/02/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-059

SB-50 (10-11')

Phoenix I.D.: BJ34828

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	85		%	1	07/02/15	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.
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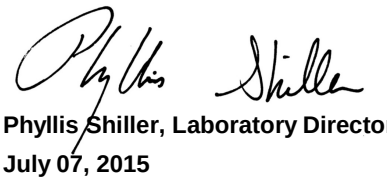

Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	13:20
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34829

Project ID: ANOCOIL
Client ID: 1251150622-060

SB-51 (5-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	06/23/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/23/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	06/23/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/23/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150622-060

SB-51 (5-10')

Phoenix I.D.: BJ34829

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	06/23/15	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	06/23/15	DD	30 - 130 %
% Terphenyl-d14	91		%	1	06/23/15	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.
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Phyllis Shiller, Laboratory Director

July 07, 2015

Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	15:00
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34832

Project ID: ANOCOIL
Client ID: 1251150622-063

SB-54 (5.5-10')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.40	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Arsenic	5.6	0.8	mg/Kg	1	06/23/15	EK	SW6010C
Barium	55.4	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Chromium	30.1	0.40	mg/Kg	1	06/23/15	EK	SW6010C
Mercury	0.07	0.03	mg/Kg	1	06/24/15	RS	SW7471B
Lead	282	4.0	mg/Kg	10	06/24/15	EK	SW6010C
Selenium	< 1.6	1.6	mg/Kg	1	06/23/15	EK	SW6010C
Percent Solid	86		%		06/22/15	I	SW846-%Solid
pH - Soil	8.55	0.10	pH Units	1	06/22/15 19:30	DH/KDB	SW9045
Soil Extraction SVOA PAH	Completed				06/22/15	JJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/22/15	JC/V	SW3545A
Mercury Digestion	Completed				06/23/15	IU/IU	SW7471B
Total Metals Digest	Completed				06/22/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	4500	560	mg/Kg	10	06/24/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	10	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	10	06/24/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.4	ug/Kg	1	07/02/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,1-Dichloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-063

SB-54 (5.5-10')

Phoenix I.D.: BJ34832

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,1-Dichloropropene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2,3-Trichloropropane	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dibromoethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,2-Dichlorobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,2-Dichloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,2-Dichloropropane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,3-Dichlorobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
1,3-Dichloropropane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
1,4-Dichlorobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
2,2-Dichloropropane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
2-Chlorotoluene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
2-Hexanone	ND	28	ug/Kg	1	07/02/15	JLI	SW8260
2-Isopropyltoluene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
4-Chlorotoluene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
4-Methyl-2-pentanone	ND	28	ug/Kg	1	07/02/15	JLI	SW8260
Acetone	ND	150	ug/Kg	1	07/02/15	JLI	SW8260
Acrylonitrile	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Benzene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Bromobenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
Bromochloromethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Bromodichloromethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Bromoform	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Bromomethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Carbon Disulfide	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Carbon tetrachloride	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Chlorobenzene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Chloroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Chloroform	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Chloromethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Dibromochloromethane	ND	3.4	ug/Kg	1	07/02/15	JLI	SW8260
Dibromomethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Ethylbenzene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Hexachlorobutadiene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
Isopropylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
m&p-Xylene	14	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Methyl Ethyl Ketone	ND	34	ug/Kg	1	07/02/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	07/02/15	JLI	SW8260
Methylene chloride	ND	50	ug/Kg	1	07/02/15	JLI	SW8260
Naphthalene	440	290	ug/Kg	50	07/02/15	JLI	SW8260
n-Butylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
o-Xylene	9.4	5.6	ug/Kg	1	07/02/15	JLI	SW8260
p-Isopropyltoluene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
sec-Butylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
Styrene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
tert-Butylbenzene	ND	290	ug/Kg	50	07/02/15	JLI	SW8260
Tetrachloroethene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	07/02/15	JLI	SW8260
Toluene	11	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Total Xylenes	23.4	5.6	ug/Kg	1	07/02/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	590	ug/Kg	50	07/02/15	JLI	SW8260
Trichloroethene	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Trichlorofluoromethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
Vinyl chloride	ND	5.6	ug/Kg	1	07/02/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	50	07/02/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	07/02/15	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	07/02/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/02/15	JLI	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	ND	1300	ug/Kg	5	06/25/15	DD	SW8270D
Acenaphthene	ND	1300	ug/Kg	5	06/25/15	DD	SW8270D
Acenaphthylene	7300	1300	ug/Kg	5	06/25/15	DD	SW8270D
Anthracene	3500	1300	ug/Kg	5	06/25/15	DD	SW8270D
Benz(a)anthracene	22000	1300	ug/Kg	5	06/25/15	DD	SW8270D
Benzo(a)pyrene	17000	1300	ug/Kg	5	06/25/15	DD	SW8270D
Benzo(b)fluoranthene	7700	1300	ug/Kg	5	06/25/15	DD	SW8270D
Benzo(ghi)perylene	6300	1300	ug/Kg	5	06/25/15	DD	SW8270D
Benzo(k)fluoranthene	15000	1300	ug/Kg	5	06/25/15	DD	SW8270D
Chrysene	38000	6600	ug/Kg	25	06/25/15	DD	SW8270D
Dibenz(a,h)anthracene	2300	1300	ug/Kg	5	06/25/15	DD	SW8270D
Fluoranthene	23000	1300	ug/Kg	5	06/25/15	DD	SW8270D
Fluorene	ND	1300	ug/Kg	5	06/25/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	6300	1300	ug/Kg	5	06/25/15	DD	SW8270D
Naphthalene	ND	1300	ug/Kg	5	06/25/15	DD	SW8270D
Phenanthrene	6800	1300	ug/Kg	5	06/25/15	DD	SW8270D
Pyrene	53000	6600	ug/Kg	25	06/25/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	5	06/25/15	DD	30 - 130 %
% Nitrobenzene-d5	45		%	5	06/25/15	DD	30 - 130 %
% Terphenyl-d14	52		%	5	06/25/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-063

SB-54 (5.5-10')

Phoenix I.D.: BJ34832

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

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

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

This sample was not collected in accordance with EPA method 5035. NELAC requires the laboratory to qualify the volatile soil data as biased low.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	15:05
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34833

Project ID: ANOCOIL
Client ID: 1251150622-064

SB-54 (10-10.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Lead	20.9	0.35	mg/Kg	1	07/02/15	LK	SW6010C
Percent Solid	89		%		06/22/15	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/01/15	QJ/VH	SW3545A
Extraction of CT ETPH	Completed				07/01/15	QJ/V	SW3545A
Total Metals Digest	Completed				07/01/15	G/AG	SW3050B
Field Extraction	Completed				06/22/15		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	2100	280	mg/Kg	5	07/02/15	KCA	CTETPH 8015D
Identification	**		mg/Kg	5	07/02/15	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	5	07/02/15	KCA	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	140	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	2000	1800	ug/Kg	500	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-064

SB-54 (10-10.5')

Phoenix I.D.: BJ34833

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	260	230	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	1100	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
4-Methyl-2-pentanone	ND	1100	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	1400	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	140	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	1100	230	ug/Kg	50	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	680	230	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	1500	230	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	1400	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	460	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	26000	2300	ug/Kg	500	06/25/15	JLI	SW8260
n-Butylbenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	2100	230	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	380	230	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	660	230	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	460	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	470	230	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-064

SB-54 (10-10.5')

Phoenix I.D.: BJ34833

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Xylenes	3600	230	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	460	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	230	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	96		%	50	06/25/15	JLI	70 - 130 %
% Dibromofluoromethane	97		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	99		%	50	06/25/15	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	6000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Acenaphthene	3300	2600	ug/Kg	10	07/02/15	DD	SW8270D
Acenaphthylene	12000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Anthracene	2900	2600	ug/Kg	10	07/02/15	DD	SW8270D
Benz(a)anthracene	11000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Benzo(a)pyrene	11000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Benzo(b)fluoranthene	4900	2600	ug/Kg	10	07/02/15	DD	SW8270D
Benzo(ghi)perylene	4100	2600	ug/Kg	10	07/02/15	DD	SW8270D
Benzo(k)fluoranthene	7900	2600	ug/Kg	10	07/02/15	DD	SW8270D
Chrysene	12000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	2600	ug/Kg	10	07/02/15	DD	SW8270D
Fluoranthene	8600	2600	ug/Kg	10	07/02/15	DD	SW8270D
Fluorene	3700	2600	ug/Kg	10	07/02/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	4400	2600	ug/Kg	10	07/02/15	DD	SW8270D
Naphthalene	23000	2600	ug/Kg	10	07/02/15	DD	SW8270D
Phenanthrene	5800	2600	ug/Kg	10	07/02/15	DD	SW8270D
Pyrene	20000	2600	ug/Kg	10	07/02/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	07/02/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	07/02/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	07/02/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-064

SB-54 (10-10.5')

Phoenix I.D.: BJ34833

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

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

Comments:

Volatile Comment:
Elevated reporting limits for volatiles due to the presence of target and/or non-target compounds.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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

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

July 07, 2015

Reviewed and Released by: Ethan Lee, 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

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	13:40
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34834

Project ID: ANOCOIL
Client ID: 1251150622-065

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/22/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-065

Trip Blank - high

Phoenix I.D.: BJ34834

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/25/15	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/25/15	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/25/15	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/25/15	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/25/15	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/25/15	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	06/25/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-065 Trip Blank - high

Phoenix I.D.: BJ34834

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	50	06/25/15	JLI	70 - 130 %
% Toluene-d8	100		%	50	06/25/15	JLI	70 - 130 %

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

Comments:

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

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

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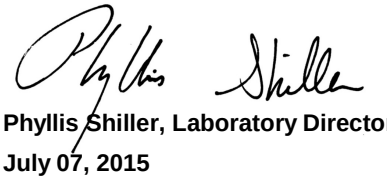

Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

July 07, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/22/15	13:41
Location Code:	F&O-PCB	Received by:	SW	06/22/15	16:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P30				

Laboratory Data

SDG ID: GBJ34817
Phoenix ID: BJ34835

Project ID: ANOCOIL
Client ID: 1251150622-066

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/22/15		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260

Project ID: ANOCOIL
Client ID: 1251150622-066

Trip Blank - low

Phoenix I.D.: BJ34835

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/25/15	JLI	SW8260
Acetone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/25/15	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/25/15	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/25/15	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/25/15	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	06/25/15	JLI	70 - 130 %
% Bromofluorobenzene	91		%	1	06/25/15	JLI	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150622-066

Trip Blank - low

Phoenix I.D.: BJ34835

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	96		%	1	06/25/15	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/25/15	JLI	70 - 130 %

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

Comments:

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

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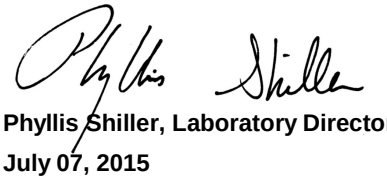

Phyllis Shiller, Laboratory Director
July 07, 2015
Reviewed and Released by: Ethan Lee, Project Manager

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

QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ34817

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 313890 (mg/kg), QC Sample No: BJ33419 (BJ34827)														
Chromium, Hexavalent (SW3060 digestion) - Solid														
Hexavalent Cr	BRL	0.40	5.52	5.85	5.80	96.9						70 - 130	30	
Insoluble Cr						109			100			70 - 130	30	
Soluble Cr						100			116			70 - 130	30	
QA/QC Batch 311640 (mg/kg), QC Sample No: BJ34317 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34832)														
Mercury - Soil	BRL	0.06	0.66	0.50	27.6	102	109	6.6	78.9	90.7	13.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 311617 (mg/kg), QC Sample No: BJ34824 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34832)														
ICP Metals - Soil														
Aluminum	BRL	5.2	12000	12600	4.90	125	119	4.9	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.69	4.9	5.4	NC	108	102	5.7	97.8	99.1	1.3	75 - 125	30	
Barium	BRL	0.35	66.4	87.7	27.6	109	103	5.7	106	113	6.4	75 - 125	30	
Cadmium	BRL	0.35	0.61	1.50	NC	105	100	4.9	97.5	99.4	1.9	75 - 125	30	
Chromium	BRL	0.35	112	75.9	38.4	109	105	3.7	60.4	100	49.4	75 - 125	30	m,r
Lead	BRL	0.35	135	153	12.5	106	100	5.8	86.1	107	21.6	75 - 125	30	
Selenium	BRL	1.4	<2.1	<2.2	NC	92.2	89.3	3.2	89.6	91.8	2.4	75 - 125	30	
Silver	BRL	0.35	<0.51	<0.56	NC	103	95.2	7.9	97.1	96.4	0.7	75 - 125	30	
QA/QC Batch 311778 (mg/L), QC Sample No: BJ34901 (BJ34826)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	86.1	114	27.9	102	99.9	2.1	70 - 130	20	r
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 311960 (mg/L), QC Sample No: BJ36604 (BJ34826)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.048	0.059	NC	95.6	96.9	1.4	98.9	97.3	1.6	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.1	99.2	1.1	99.5	99.9	0.4	75 - 125	20	
Barium	BRL	0.002	0.025	0.024	4.10	104	105	1.0	103	102	1.0	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.2	101	1.8	96.5	97.1	0.6	75 - 125	20	
Chromium	BRL	0.001	0.009	0.009	0	98.0	99.1	1.1	95.4	96.1	0.7	75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	97.9	98.9	1.0	95.1	96.0	0.9	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	96.9	97.3	0.4	96.9	97.8	0.9	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	99.2	100	0.8	101	101	0.0	75 - 125	20	
QA/QC Batch 312582 (mg/kg), QC Sample No: BJ38946 (BJ34822, BJ34828, BJ34833)														
ICP Metals - Soil														
Arsenic	BRL	0.67	<0.8	1.60	NC	101	91.6	9.8	94.8	94.2	0.6	75 - 125	30	
Chromium	BRL	0.33	22.3	24.1	7.80	104	97.9	6.0	102	102	0.0	75 - 125	30	
Lead	BRL	0.33	7.4	11.6	44.2	97.1	101	3.9	98.7	99.0	0.3	75 - 125	30	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 17, 2015

QA/QC Data

SDG I.D.: GBJ34817

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 311656 (PH), QC Sample No: BJ34566 (BJ34819, BJ34821, BJ34824, BJ34825)													
pH - Soil			8.17	8.22	0.60	99.9						85 - 115	20
QA/QC Batch 311658 (pH), QC Sample No: BJ34699 (BJ34826)													
pH			8.41	8.18	2.80	98.6						85 - 115	20
QA/QC Batch 311657 (PH), QC Sample No: BJ34827 (BJ34827, BJ34832)													
pH - Soil			7.10	7.12	0.30	99.9						85 - 115	20

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QA/QC Report

July 17, 2015

QA/QC Data

SDG I.D.: GBJ34817

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 311335 (mg/L), QC Sample No: BJ32272 (BJ34826)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum HC	ND	0.070	93	84	10.2				30 - 130	30	
% n-Pentacosane	70	%	88	72	20.0				50 - 150	20	
QA/QC Batch 311607 (ug/L), QC Sample No: BJ34395 (BJ34826)											
Polychlorinated Biphenyls - Water											
PCB-1016	ND	0.050	88	102	14.7				40 - 140	20	
PCB-1221	ND	0.050							40 - 140	20	
PCB-1232	ND	0.050							40 - 140	20	
PCB-1242	ND	0.050							40 - 140	20	
PCB-1248	ND	0.050							40 - 140	20	
PCB-1254	ND	0.050							40 - 140	20	
PCB-1260	ND	0.050	106	118	10.7				40 - 140	20	
PCB-1262	ND	0.050							40 - 140	20	
PCB-1268	ND	0.050							40 - 140	20	
% DCBP (Surrogate Rec)	65	%	76	76	0.0				30 - 150	20	
% TCMX (Surrogate Rec)	53	%	50	72	36.1				30 - 150	20	r
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
QA/QC Batch 311600 (ug/L), QC Sample No: BJ34641 (BJ34826)											
Polynuclear Aromatic HC - Water											
2-Methylnaphthalene	ND	0.05	61	60	1.7				30 - 130	20	
Acenaphthene	ND	0.05	80	85	6.1				30 - 130	20	
Acenaphthylene	ND	0.04	92	98	6.3				30 - 130	20	
Anthracene	ND	0.05	92	99	7.3				30 - 130	20	
Benz(a)anthracene	ND	0.02	81	86	6.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	87	93	6.7				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	98	103	5.0				30 - 130	20	
Benzo(ghi)perylene	ND	0.05	79	79	0.0				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	71	78	9.4				30 - 130	20	
Chrysene	ND	0.02	84	89	5.8				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	83	83	0.0				30 - 130	20	
Fluoranthene	ND	0.05	97	100	3.0				30 - 130	20	
Fluorene	ND	0.05	84	89	5.8				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	82	83	1.2				30 - 130	20	
Naphthalene	ND	0.05	73	66	10.1				30 - 130	20	
Phenanthrene	ND	0.05	89	95	6.5				30 - 130	20	
Pyrene	ND	0.05	99	101	2.0				30 - 130	20	
% 2-Fluorobiphenyl	76	%	73	75	2.7				30 - 130	20	
% Nitrobenzene-d5	73	%	62	58	6.7				30 - 130	20	
% Terphenyl-d14	107	%	110	111	0.9				30 - 130	20	

Parameter	Blank	Blk RL	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 311685 (ug/L), QC Sample No: BJ34642 (BJ34826)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	107	110	2.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	112	116	3.5				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	102	106	3.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	102	107	4.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	106	113	6.4				70 - 130	30
1,1-Dichloroethene	ND	1.0	128	136	6.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	124	128	3.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	83	88	5.8				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	104	107	2.8				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	92	95	3.2				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	106	110	3.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	82	86	4.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	105	111	5.6				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	102	106	3.8				70 - 130	30
1,2-Dichloroethane	ND	1.0	94	96	2.1				70 - 130	30
1,2-Dichloropropane	ND	1.0	109	113	3.6				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	116	118	1.7				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	108	111	2.7				70 - 130	30
1,3-Dichloropropane	ND	1.0	104	105	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	105	107	1.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	115	119	3.4				70 - 130	30
2-Chlorotoluene	ND	1.0	119	120	0.8				70 - 130	30
2-Hexanone	ND	5.0	97	101	4.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	118	120	1.7				70 - 130	30
4-Chlorotoluene	ND	1.0	110	114	3.6				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	94	101	7.2				70 - 130	30
Acetone	ND	5.0	76	89	15.8				70 - 130	30
Acrylonitrile	ND	5.0	101	107	5.8				70 - 130	30
Benzene	ND	0.70	117	121	3.4				70 - 130	30
Bromobenzene	ND	1.0	109	113	3.6				70 - 130	30
Bromochloromethane	ND	1.0	105	108	2.8				70 - 130	30
Bromodichloromethane	ND	0.50	104	107	2.8				70 - 130	30
Bromoform	ND	1.0	103	109	5.7				70 - 130	30
Bromomethane	ND	1.0	70	79	12.1				70 - 130	30
Carbon Disulfide	ND	1.0	129	137	6.0				70 - 130	30
Carbon tetrachloride	ND	1.0	118	122	3.3				70 - 130	30
Chlorobenzene	ND	1.0	111	115	3.5				70 - 130	30
Chloroethane	ND	1.0	102	107	4.8				70 - 130	30
Chloroform	ND	1.0	101	106	4.8				70 - 130	30
Chloromethane	ND	1.0	83	88	5.8				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	106	115	8.1				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	108	114	5.4				70 - 130	30
Dibromochloromethane	ND	0.50	103	110	6.6				70 - 130	30
Dibromomethane	ND	1.0	100	105	4.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	129	136	5.3				70 - 130	30
Ethylbenzene	ND	1.0	118	123	4.1				70 - 130	30
Hexachlorobutadiene	ND	0.40	114	111	2.7				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Isopropylbenzene	ND	1.0	122	125	2.4				70 - 130	30	
m&p-Xylene	ND	1.0	116	120	3.4				70 - 130	30	
Methyl ethyl ketone	ND	5.0	91	100	9.4				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	95	103	8.1				70 - 130	30	
Methylene chloride	ND	1.0	105	110	4.7				70 - 130	30	
Naphthalene	ND	1.0	91	94	3.2				70 - 130	30	
n-Butylbenzene	ND	1.0	116	116	0.0				70 - 130	30	
n-Propylbenzene	ND	1.0	116	118	1.7				70 - 130	30	
o-Xylene	ND	1.0	117	122	4.2				70 - 130	30	
p-Isopropyltoluene	ND	1.0	119	121	1.7				70 - 130	30	
sec-Butylbenzene	ND	1.0	126	127	0.8				70 - 130	30	
Styrene	ND	1.0	112	118	5.2				70 - 130	30	
tert-Butylbenzene	ND	1.0	121	123	1.6				70 - 130	30	
Tetrachloroethene	ND	1.0	124	128	3.2				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	91	99	8.4				70 - 130	30	
Toluene	ND	1.0	113	118	4.3				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	117	128	9.0				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	105	110	4.7				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	102	104	1.9				70 - 130	30	
Trichloroethene	ND	1.0	121	126	4.0				70 - 130	30	
Trichlorofluoromethane	ND	1.0	120	125	4.1				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	138	146	5.6				70 - 130	30	l
Vinyl chloride	ND	1.0	122	129	5.6				70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	96	98	2.1				70 - 130	30	
% Bromofluorobenzene	95	%	99	96	3.1				70 - 130	30	
% Dibromofluoromethane	92	%	94	96	2.1				70 - 130	30	
% Toluene-d8	102	%	98	97	1.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 311609 (mg/Kg), QC Sample No: BJ34768 (BJ34817, BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34829, BJ34832)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	63	76	18.7	58	85	37.8	30 - 130	30	r
% n-Pentacosane	66	%	80	89	10.7	67	104	43.3	50 - 150	30	r

QA/QC Batch 311605 (ug/kg), QC Sample No: BJ34819 (BJ34817, BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34829, BJ34832)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230	92	94	2.2	98	94	4.2	30 - 130	30	
Acenaphthene	ND	230	86	87	1.2	91	84	8.0	30 - 130	30	
Acenaphthylene	ND	230	87	88	1.1	90	84	6.9	30 - 130	30	
Anthracene	ND	230	95	93	2.1	96	93	3.2	30 - 130	30	
Benz(a)anthracene	ND	230	97	98	1.0	102	99	3.0	30 - 130	30	
Benzo(a)pyrene	ND	230	95	96	1.0	99	95	4.1	30 - 130	30	
Benzo(b)fluoranthene	ND	230	95	99	4.1	99	96	3.1	30 - 130	30	
Benzo(ghi)perylene	ND	230	91	93	2.2	95	93	2.1	30 - 130	30	
Benzo(k)fluoranthene	ND	230	92	91	1.1	96	93	3.2	30 - 130	30	
Chrysene	ND	230	96	99	3.1	97	96	1.0	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	93	94	1.1	96	94	2.1	30 - 130	30	
Fluoranthene	ND	230	93	96	3.2	90	91	1.1	30 - 130	30	
Fluorene	ND	230	90	92	2.2	95	90	5.4	30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Indeno(1,2,3-cd)pyrene	ND	230	97	99	2.0	100	98	2.0	30 - 130	30
Naphthalene	ND	230	84	88	4.7	92	84	9.1	30 - 130	30
Phenanthrene	ND	230	94	93	1.1	92	89	3.3	30 - 130	30
Pyrene	ND	230	94	94	0.0	91	92	1.1	30 - 130	30
% 2-Fluorobiphenyl	76	%	81	84	3.6	86	81	6.0	30 - 130	30
% Nitrobenzene-d5	65	%	84	83	1.2	86	77	11.0	30 - 130	30
% Terphenyl-d14	89	%	86	90	4.5	86	88	2.3	30 - 130	30

Comment:

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

QA/QC Batch 312574 (ug/kg), QC Sample No: BJ34833 (BJ34818, BJ34822, BJ34823, BJ34828, BJ34833)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230	94	75	22.5				30 - 130	30
Acenaphthene	ND	230	95	79	18.4				30 - 130	30
Acenaphthylene	ND	230	91	77	16.7				30 - 130	30
Anthracene	ND	230	96	84	13.3				30 - 130	30
Benz(a)anthracene	ND	230	97	88	9.7				30 - 130	30
Benzo(a)pyrene	ND	230	99	87	12.9				30 - 130	30
Benzo(b)fluoranthene	ND	230	96	82	15.7				30 - 130	30
Benzo(ghi)perylene	ND	230	103	88	15.7				30 - 130	30
Benzo(k)fluoranthene	ND	230	99	81	20.0				30 - 130	30
Chrysene	ND	230	99	88	11.8				30 - 130	30
Dibenz(a,h)anthracene	ND	230	104	89	15.5				30 - 130	30
Fluoranthene	ND	230	93	80	15.0				30 - 130	30
Fluorene	ND	230	94	80	16.1				30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	105	91	14.3				30 - 130	30
Naphthalene	ND	230	86	67	24.8				30 - 130	30
Phenanthrene	ND	230	96	85	12.2				30 - 130	30
Pyrene	ND	230	92	81	12.7				30 - 130	30
% 2-Fluorobiphenyl	81	%	92	76	19.0				30 - 130	30
% Nitrobenzene-d5	72	%	82	64	24.7				30 - 130	30
% Terphenyl-d14	87	%	90	78	14.3				30 - 130	30

Comment:

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

QA/QC Batch 311932 (ug/kg), QC Sample No: BJ35996 (BJ34819, BJ34821 (1X, 50X) , BJ34824 (50X) , BJ34825 (50X) , BJ34827 (1X, 50X) , BJ34833 (50X, 500X) , BJ34834 (50X) , BJ34835)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	104	100	3.9	103	106	2.9	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	104	99	4.9	102	105	2.9	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	104	98	5.9	101	107	5.8	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	98	94	4.2	95	99	4.1	70 - 130	30
1,1-Dichloroethane	ND	5.0	112	107	4.6	87	90	3.4	70 - 130	30
1,1-Dichloroethene	ND	5.0	105	99	5.9	78	76	2.6	70 - 130	30
1,1-Dichloropropene	ND	5.0	100	96	4.1	102	103	1.0	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	98	96	2.1	97	105	7.9	70 - 130	30
1,2,3-Trichloropropane	ND	5.0	103	99	4.0	102	107	4.8	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	97	96	1.0	100	106	5.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96	93	3.2	98	101	3.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	109	101	7.6	103	109	5.7	70 - 130	30
1,2-Dibromoethane	ND	5.0	105	99	5.9	100	106	5.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	97	94	3.1	98	102	4.0	70 - 130	30

QA/QC Data

SDG I.D.: GBJ34817

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2-Dichloroethane	ND	5.0	98	95	3.1	97	100	3.0	70 - 130	30	
1,2-Dichloropropane	ND	5.0	97	94	3.1	98	101	3.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	101	97	4.0	102	105	2.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	96	93	3.2	98	101	3.0	70 - 130	30	
1,3-Dichloropropane	ND	5.0	102	97	5.0	100	104	3.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	95	92	3.2	96	100	4.1	70 - 130	30	
2,2-Dichloropropane	ND	5.0	101	96	5.1	102	105	2.9	70 - 130	30	
2-Chlorotoluene	ND	5.0	99	95	4.1	101	103	2.0	70 - 130	30	
2-Hexanone	ND	25	100	94	6.2	98	102	4.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	104	99	4.9	105	108	2.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	97	93	4.2	99	102	3.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	101	96	5.1	98	102	4.0	70 - 130	30	
Acetone	ND	10	83	80	3.7	65	66	1.5	70 - 130	30	m
Acrylonitrile	ND	5.0	105	99	5.9	99	104	4.9	70 - 130	30	
Benzene	ND	1.0	99	96	3.1	99	102	3.0	70 - 130	30	
Bromobenzene	ND	5.0	97	94	3.1	96	100	4.1	70 - 130	30	
Bromochloromethane	ND	5.0	103	99	4.0	99	104	4.9	70 - 130	30	
Bromodichloromethane	ND	5.0	105	101	3.9	103	106	2.9	70 - 130	30	
Bromoform	ND	5.0	111	106	4.6	107	111	3.7	70 - 130	30	
Bromomethane	ND	5.0	92	94	2.2	51	57	11.1	70 - 130	30	m
Carbon Disulfide	ND	5.0	112	105	6.5	86	84	2.4	70 - 130	30	
Carbon tetrachloride	ND	5.0	101	97	4.0	99	101	2.0	70 - 130	30	
Chlorobenzene	ND	5.0	98	95	3.1	99	102	3.0	70 - 130	30	
Chloroethane	ND	5.0	91	85	6.8	28	27	3.6	70 - 130	30	m
Chloroform	ND	5.0	100	96	4.1	90	93	3.3	70 - 130	30	
Chloromethane	ND	5.0	85	82	3.6	86	88	2.3	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	100	100	0.0	98	107	8.8	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	105	103	1.9	107	112	4.6	70 - 130	30	
Dibromochloromethane	ND	3.0	110	106	3.7	106	110	3.7	70 - 130	30	
Dibromomethane	ND	5.0	100	97	3.0	97	101	4.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	92	87	5.6	93	96	3.2	70 - 130	30	
Ethylbenzene	ND	1.0	102	98	4.0	104	106	1.9	70 - 130	30	
Hexachlorobutadiene	ND	5.0	101	97	4.0	106	109	2.8	70 - 130	30	
Isopropylbenzene	ND	1.0	100	97	3.0	102	105	2.9	70 - 130	30	
m&p-Xylene	ND	2.0	101	98	3.0	103	105	1.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	88	84	4.7	82	87	5.9	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	104	98	5.9	94	97	3.1	70 - 130	30	
Methylene chloride	ND	5.0	94	90	4.3	86	86	0.0	70 - 130	30	
Naphthalene	ND	5.0	110	106	3.7	114	119	4.3	70 - 130	30	
n-Butylbenzene	ND	1.0	98	95	3.1	102	103	1.0	70 - 130	30	
n-Propylbenzene	ND	1.0	94	91	3.2	95	97	2.1	70 - 130	30	
o-Xylene	ND	2.0	103	100	3.0	105	108	2.8	70 - 130	30	
p-Isopropyltoluene	ND	1.0	101	98	3.0	104	107	2.8	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	99	4.0	105	108	2.8	70 - 130	30	
Styrene	ND	5.0	102	99	3.0	103	107	3.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	97	5.0	103	106	2.9	70 - 130	30	
Tetrachloroethene	ND	5.0	100	96	4.1	101	103	2.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	102	95	7.1	95	100	5.1	70 - 130	30	
Toluene	ND	1.0	98	95	3.1	99	102	3.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	105	100	4.9	98	97	1.0	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	108	105	2.8	108	112	3.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	110	103	6.6	104	111	6.5	70 - 130	30	
Trichloroethene	ND	5.0	101	98	3.0	100	102	2.0	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Trichlorofluoromethane	ND	5.0	97	91	6.4	18	18	0.0	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	104	97	7.0	83	82	1.2	70 - 130	30	
Vinyl chloride	ND	5.0	102	97	5.0	105	108	2.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	93	%	100	100	0.0	102	102	0.0	70 - 130	30	
% Dibromofluoromethane	100	%	102	102	0.0	99	99	0.0	70 - 130	30	
% Toluene-d8	100	%	99	100	1.0	100	100	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 312669 (ug/kg), QC Sample No: BJ40041 (BJ34823 (1X, 50X) , BJ34832 (1X, 50X))

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	100	103	3.0	96	100	4.1	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	98	98	0.0	91	96	5.3	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	94	99	5.2	90	94	4.3	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	91	95	4.3	91	97	6.4	70 - 130	30	
1,1-Dichloroethane	ND	5.0	105	104	1.0	97	101	4.0	70 - 130	30	
1,1-Dichloroethene	ND	5.0	99	97	2.0	66	67	1.5	70 - 130	30	m
1,1-Dichloropropene	ND	5.0	95	97	2.1	94	98	4.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	95	98	3.1	90	101	11.5	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	89	94	5.5	87	91	4.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	95	97	2.1	94	103	9.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92	95	3.2	95	100	5.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	101	108	6.7	99	106	6.8	70 - 130	30	
1,2-Dibromoethane	ND	5.0	97	102	5.0	95	99	4.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	93	97	4.2	92	97	5.3	70 - 130	30	
1,2-Dichloroethane	ND	5.0	91	94	3.2	86	91	5.6	70 - 130	30	
1,2-Dichloropropane	ND	5.0	91	94	3.2	89	93	4.4	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	99	3.1	94	98	4.2	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	93	96	3.2	92	99	7.3	70 - 130	30	
1,3-Dichloropropane	ND	5.0	97	98	1.0	91	96	5.3	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	91	94	3.2	92	97	5.3	70 - 130	30	
2,2-Dichloropropane	ND	5.0	97	96	1.0	89	92	3.3	70 - 130	30	
2-Chlorotoluene	ND	5.0	96	98	2.1	94	97	3.1	70 - 130	30	
2-Hexanone	ND	25	86	90	4.5	92	97	5.3	70 - 130	30	
2-Isopropyltoluene	ND	5.0	98	102	4.0	95	99	4.1	70 - 130	30	
4-Chlorotoluene	ND	5.0	93	96	3.2	93	98	5.2	70 - 130	30	
4-Methyl-2-pentanone	ND	25	86	90	4.5	90	95	5.4	70 - 130	30	
Acetone	ND	10	69	72	4.3	58	57	1.7	70 - 130	30	l,m
Acrylonitrile	ND	5.0	88	90	2.2	85	90	5.7	70 - 130	30	
Benzene	ND	1.0	93	96	3.2	90	96	6.5	70 - 130	30	
Bromobenzene	ND	5.0	94	98	4.2	93	97	4.2	70 - 130	30	
Bromochloromethane	ND	5.0	95	99	4.1	91	93	2.2	70 - 130	30	
Bromodichloromethane	ND	5.0	99	103	4.0	92	97	5.3	70 - 130	30	
Bromoform	ND	5.0	105	111	5.6	99	106	6.8	70 - 130	30	
Bromomethane	ND	5.0	93	91	2.2	54	62	13.8	70 - 130	30	m
Carbon Disulfide	ND	5.0	103	103	0.0	70	72	2.8	70 - 130	30	
Carbon tetrachloride	ND	5.0	98	99	1.0	89	92	3.3	70 - 130	30	
Chlorobenzene	ND	5.0	95	96	1.0	93	98	5.2	70 - 130	30	
Chloroethane	ND	5.0	89	88	1.1	27	27	0.0	70 - 130	30	m
Chloroform	ND	5.0	93	95	2.1	88	83	5.8	70 - 130	30	
Chloromethane	ND	5.0	78	78	0.0	89	91	2.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	100	100	0.0	88	91	3.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ34817

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	5.0	100	105	4.9	96	101	5.1	70 - 130	30	
Dibromochloromethane	ND	3.0	106	110	3.7	95	102	7.1	70 - 130	30	
Dibromomethane	ND	5.0	94	98	4.2	90	94	4.3	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	84	84	0.0	96	100	4.1	70 - 130	30	
Ethylbenzene	ND	1.0	97	99	2.0	95	100	5.1	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	103	0.0	100	103	3.0	70 - 130	30	
Isopropylbenzene	ND	1.0	97	100	3.0	96	99	3.1	70 - 130	30	
m&p-Xylene	ND	2.0	98	98	0.0	95	100	5.1	70 - 130	30	
Methyl ethyl ketone	ND	5.0	72	77	6.7	73	74	1.4	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	97	99	2.0	86	88	2.3	70 - 130	30	
Methylene chloride	ND	5.0	86	86	0.0	79	80	1.3	70 - 130	30	
Naphthalene	ND	5.0	102	109	6.6	89	99	10.6	70 - 130	30	
n-Butylbenzene	ND	1.0	93	95	2.1	96	101	5.1	70 - 130	30	
n-Propylbenzene	ND	1.0	89	93	4.4	95	98	3.1	70 - 130	30	
o-Xylene	ND	2.0	100	101	1.0	99	104	4.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	97	101	4.0	98	102	4.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	99	102	3.0	95	100	5.1	70 - 130	30	
Styrene	ND	5.0	97	100	3.0	98	102	4.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	98	102	4.0	96	100	4.1	70 - 130	30	
Tetrachloroethene	ND	5.0	98	99	1.0	98	103	5.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	85	87	2.3	81	84	3.6	70 - 130	30	
Toluene	ND	1.0	94	96	2.1	92	97	5.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	98	97	1.0	89	88	1.1	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	102	106	3.8	95	102	7.1	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	100	106	5.8	97	101	4.0	70 - 130	30	
Trichloroethene	ND	5.0	98	100	2.0	94	99	5.2	70 - 130	30	
Trichlorofluoromethane	ND	5.0	96	94	2.1	18	19	5.4	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	97	96	1.0	73	76	4.0	70 - 130	30	
Vinyl chloride	ND	5.0	96	95	1.0	100	103	3.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	104	%	105	105	0.0	105	104	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	101	101	0.0	104	103	1.0	70 - 130	30	
% Dibromofluoromethane	100	%	104	101	2.9	103	100	3.0	70 - 130	30	
% Toluene-d8	101	%	102	102	0.0	102	103	1.0	70 - 130	30	

Comment:

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

QA/QC Batch 312562 (mg/Kg), QC Sample No: BJ40198 (BJ34822, BJ34823, BJ34833)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum HC	ND	50	82	75	8.9				30 - 130	30	
% n-Pentacosane	68	%	95	84	12.3				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.

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

QA/QC Data

SDG I.D.: GBJ34817

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

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

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

Phyllis Shiller, Laboratory Director
July 17, 2015

Sample Criteria Exceedences Report

GBJ34817 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ34817	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3000	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3200	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	2700	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8100	1400	5600	5600	ug/Kg
BJ34817	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6000	1400	4000	4000	ug/Kg
BJ34817	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7100	1400	4000	4000	ug/Kg
BJ34817	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	3800	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3800	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3000	270	1000	1000	ug/Kg
BJ34817	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3200	270	1000	1000	ug/Kg
BJ34821	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	21000	2800	4000	4000	ug/Kg
BJ34821	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2800	1000	1000	ug/Kg
BJ34821	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	2800	1000	1000	ug/Kg
BJ34821	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	3600	300	500	500	mg/Kg
BJ34821	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	3600	300	500	500	mg/Kg
BJ34821	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	14.6	0.8	10	10	mg/Kg
BJ34822	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	15.0	0.8	10	10	mg/Kg
BJ34824	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	19000	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	55000	9100	4000	4000	ug/Kg
BJ34824	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	180000	9100	4000	4000	ug/Kg
BJ34824	$8100SMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	45000	9100	5600	5600	ug/Kg
BJ34824	$8100SMR	Fluorene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	24000	9100	5600	5600	ug/Kg
BJ34824	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	39000	9100	5600	5600	ug/Kg
BJ34824	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	12000	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	12000	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	29000	9100	8400	8400	ug/Kg
BJ34824	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	9100	8400	8400	ug/Kg
BJ34824	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	12000	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	12000	9100	1000	1000	ug/Kg
BJ34824	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	19000	9100	1000	1000	ug/Kg
BJ34824	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	120	120	ug/Kg
BJ34824	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	54	54	ug/Kg
BJ34824	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	10	10	ug/Kg

Sample Criteria Exceedences Report

GBJ34817 - FO-PCB

Criteria: CT: GAM, RC
State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ34824	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	260	10	10	ug/Kg
BJ34824	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	7900	430	5600	5600	ug/Kg
BJ34824	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	10	10	ug/Kg
BJ34824	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	40	40	ug/Kg
BJ34824	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	140	140	ug/Kg
BJ34824	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	260	10	10	ug/Kg
BJ34824	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	200	200	ug/Kg
BJ34824	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	20	20	ug/Kg
BJ34824	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	10	10	ug/Kg
BJ34824	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	20	20	ug/Kg
BJ34824	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	80	80	ug/Kg
BJ34824	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	10	10	ug/Kg
BJ34824	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	20	20	ug/Kg
BJ34824	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	11	11	ug/Kg
BJ34824	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	430	100	100	ug/Kg
BJ34824	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	430	7	7	ug/Kg
BJ34824	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	430	320	320	ug/Kg
BJ34824	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	7500	780	500	500	mg/Kg
BJ34824	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	7500	780	500	500	mg/Kg
BJ34825	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	18000	7900	8400	8400	ug/Kg
BJ34825	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	100000	7900	4000	4000	ug/Kg
BJ34825	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	25000	7900	4000	4000	ug/Kg
BJ34825	$8100SMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	38000	7900	5600	5600	ug/Kg
BJ34825	$8100SMR	Fluorene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	14000	7900	5600	5600	ug/Kg
BJ34825	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	17000	7900	5600	5600	ug/Kg
BJ34825	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	ND	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8800	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	7900	1000	1000	ug/Kg
BJ34825	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	8800	7900	1000	1000	ug/Kg
BJ34825	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	10	10	ug/Kg
BJ34825	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	20	20	ug/Kg
BJ34825	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	340	10	10	ug/Kg
BJ34825	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg
BJ34825	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg

Sample Criteria Exceedences Report

GBJ34817 - FO-PCB

Criteria: CT: GAM, RC
State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ34825	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	140	140	ug/Kg
BJ34825	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	40	40	ug/Kg
BJ34825	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	10	10	ug/Kg
BJ34825	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg
BJ34825	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	10000	560	5600	5600	ug/Kg
BJ34825	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg
BJ34825	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	340	10	10	ug/Kg
BJ34825	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	10	10	ug/Kg
BJ34825	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	54	54	ug/Kg
BJ34825	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	120	120	ug/Kg
BJ34825	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	200	200	ug/Kg
BJ34825	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	80	80	ug/Kg
BJ34825	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	11	11	ug/Kg
BJ34825	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	20	20	ug/Kg
BJ34825	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	10	10	ug/Kg
BJ34825	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg
BJ34825	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	20	20	ug/Kg
BJ34825	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	560	100	100	ug/Kg
BJ34825	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	560	320	320	ug/Kg
BJ34825	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	560	7	7	ug/Kg
BJ34825	$8260MAR	1,2-Dibromo-3-chloropropane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	560	440	440	ug/Kg
BJ34825	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	9000	850	500	500	mg/Kg
BJ34825	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	9000	850	500	500	mg/Kg
BJ34827	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1100	550	1000	1000	ug/Kg
BJ34827	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1100	550	1000	1000	ug/Kg
BJ34827	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	550	1000	1000	ug/Kg
BJ34827	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	550	1000	1000	ug/Kg
BJ34827	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	14.6	0.7	10	10	mg/Kg
BJ34832	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	53000	6600	4000	4000	ug/Kg
BJ34832	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	22000	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	17000	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7700	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	15000	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	23000	1300	5600	5600	ug/Kg
BJ34832	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	6800	1300	4000	4000	ug/Kg
BJ34832	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	22000	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	17000	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	7700	1300	1000	1000	ug/Kg
BJ34832	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	15000	1300	8400	8400	ug/Kg
BJ34832	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	4500	560	500	500	mg/Kg

Sample Criteria Exceedences Report

GBJ34817 - FO-PCB

Criteria: CT: GAM, RC
State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ34832	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	4500	560	500	500	mg/Kg
BJ34833	$8100SMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	5800	2600	4000	4000	ug/Kg
BJ34833	$8100SMR	Pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	20000	2600	4000	4000	ug/Kg
BJ34833	$8100SMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	23000	2600	5600	5600	ug/Kg
BJ34833	$8100SMR	Fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	8600	2600	5600	5600	ug/Kg
BJ34833	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	7900	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	11000	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	11000	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	4900	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	12000	2600	8400	8400	ug/Kg
BJ34833	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4900	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	11000	2600	1000	1000	ug/Kg
BJ34833	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	11000	2600	1000	1000	ug/Kg
BJ34833	$8260MAR	Tetrachloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	Chloroform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	120	120	ug/Kg
BJ34833	$8260MAR	Chloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	54	54	ug/Kg
BJ34833	$8260MAR	cis-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	10	10	ug/Kg
BJ34833	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	140	10	10	ug/Kg
BJ34833	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	40	40	ug/Kg
BJ34833	$8260MAR	Isopropylbenzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	680	230	600	600	ug/Kg
BJ34833	$8260MAR	Trichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	Naphthalene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	26000	2300	5600	5600	ug/Kg
BJ34833	$8260MAR	trans-1,3-Dichloropropene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	10	10	ug/Kg
BJ34833	$8260MAR	Carbon tetrachloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	20	20	ug/Kg
BJ34833	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	Bromomethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	200	200	ug/Kg
BJ34833	$8260MAR	Bromoform	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	80	80	ug/Kg
BJ34833	$8260MAR	Bromodichloromethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	11	11	ug/Kg
BJ34833	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	20	20	ug/Kg
BJ34833	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	10	10	ug/Kg
BJ34833	$8260MAR	1,2-Dichloropropane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	10	10	ug/Kg
BJ34833	$8260MAR	1,1-Dichloroethene	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	140	140	ug/Kg
BJ34833	$8260MAR	1,1,2-Trichloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	100	100	ug/Kg
BJ34833	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	140	10	10	ug/Kg
BJ34833	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GA/GAA PMC	ND	230	20	20	ug/Kg
BJ34833	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	230	7	7	ug/Kg
BJ34833	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	2100	280	500	500	mg/Kg
BJ34833	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	2100	280	500	500	mg/Kg

Sample Criteria Exceedences Report

GBJ34817 - FO-PCB

Criteria: CT: GAM, RC

State: CT

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

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ34817, BJ34818, BJ34819, BJ34821, BJ34822, BJ34823, BJ34824, BJ34825, BJ34826, BJ34827, BJ34828, BJ34829, BJ34832, BJ34833, BJ34834, BJ34835

Sampling Date(s): 6/22/2015

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, 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Friday, July 17, 2015

Printed Name: Ethan Lee

Position: Project Manager

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

BJ34819, BJ34821, BJ34824, BJ34825, BJ34826, BJ34827, BJ34832 - The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals are reported as requested on the chain of custody.

BJ34822 - The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic is reported as requested on the chain of custody.

BJ34828 - The client requested a shorter list of elements than the 6010 RCP list. Only Arsenic, Chromium, and Lead are reported as requested on the chain of custody.

BJ34833 - The client requested a shorter list of elements than the 6010 RCP list. Only Lead is reported as requested on the chain of custody.

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

BJ34821, BJ34824, BJ34825 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

BJ34824, BJ34825, BJ34833 - Sample(s) required a dilution for Volatiles due to the presence of target and/or non-target compounds. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

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

Instrument: Au-fid1 06/23/15-3 (BJ34825, BJ34827)

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A022_1) and contained the following outliers:
C36 (47.4%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-fid1 07/02/15-1 (BJ34833)

The initial calibration (ETPH620I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (702A004) and contained the following outliers:
DRO (C10-C28) (39%H), ETPH (C9-C36) (40.9%H), Pentacosane (199.6%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

Printed Name Keith Aloisa
Position: Chemist
Date: 7/2/2015

Instrument: Au-fid84 06/23/15-2 (BJ34817)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623A018_1) and contained the following outliers:
C36 (20.7%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-fid84 06/23/15-3 (BJ34821)

Initial Calibration (FID84 - ETPH_413) - 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

As per section 7.2.3, a discrimination check standard was run (623A025_1) and contained the following outliers:
C36 (47.8%L)

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-fid84 06/24/15-1 (BJ34821)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

As per section 7.2.3, a discrimination check standard was run (624A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

Instrument: Au-fid84 06/24/15-2 (BJ34825, BJ34832)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624A017_1) and contained the following outliers:
C36 (75.2%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

Instrument: Au-fid84 07/01/15-3 (BJ34822, BJ34823)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (701A032_1) and contained the following outliers:
C36 (27.1%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 7/1/2015

Instrument: Aufid-d1 06/23/15-2 (BJ34819, BJ34826, BJ34829)

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

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (623B016_1) and contained the following outliers:
C36 (33.3%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/23/2015

Instrument: Au-xl2 06/25/15-2 (BJ34824)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (625A016_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/25/2015

QC Comments: QC Batch 312562 07/01/15 (BJ34822, BJ34823, BJ34833)

*The MS/MSD could not be reported due to the presence of ETPH in the original sample. The LCS was within QA/QC criteria.

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ32272, QA/QC Batch: 311335 ----------

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: BJ34768, QA/QC Batch: 311609 ----------

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: BJ40198, QA/QC Batch: 312562 ----------

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.

Soil Hex Chromium Narration

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

Instrument: Spect 07/15/15-1 (BJ34827)

The initial calibration met criteria, the calibration "r" > 0.995

Three LCS solutions were evaluated and reported:
The hexavalent Chromium LCS does not require digestion and is used as a continuing calibration standard.
The insoluble and soluble spikes (LCS) monitor the performance of the extraction.
The insoluble and soluble matrix spikes monitor the effect of matrix on the recoveries of hexavalent chromium.
Some matrix spike recoveries may be outside of the acceptance criteria of 75-125, however the corresponding LCSs are within control. No further action is required, but a sample matrix bias is suspected.

Printed Name Kristina Hagelin
Position: Chemist
Date: 7/15/2015

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ33419, QA/QC Batch: 313890 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

Mercury Narration

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

QC Batch 311778 (Samples: BJ34826): -----

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. (Mercury)

Instrument: Merlin 06/23/15-1 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34832)

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: 6/23/2015

Instrument: Merlin 06/24/15-1 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34826, BJ34827, BJ34832)

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: 6/24/2015

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ34317, QA/QC Batch: 311640 ----------

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: BJ34901, QA/QC Batch: 311778 ----------

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: Mercury(27.9%)

ICP Narration

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

Instrument: Arcos 06/23/15-1 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34832)

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: 6/23/2015

Instrument: Arcos 06/24/15-1 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827)

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: 6/24/2015

Instrument: Arcos 06/26/15-1 (BJ34826)

The initial calibration met criteria.

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

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: 6/26/2015

Instrument: Arcos 07/02/15-1 (BJ34822, BJ34828, BJ34833)

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: 7/2/2015

Instrument: Blue 06/24/15-1 (BJ34832)

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: 6/24/2015

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ34824, QA/QC Batch: 311617 ----------

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: BJ36604, QA/QC Batch: 311960 ----------

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: BJ38946, QA/QC Batch: 312582 ----------

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: Chem05 07/01/15-1 (BJ34818, BJ34822, BJ34823, BJ34828, BJ34833)

Initial Calibration Verification (CHEM05/BN_0626):
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 (CHEM05/0701_04-BN_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: None.
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 7/1/2015

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 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ34641, QA/QC Batch: 311600 ----------

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.

---------- Sample No: BJ34819, QA/QC Batch: 311605 ----------

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: BJ34833, QA/QC Batch: 312574 ----------

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? No.

QC Batch 311607 (Samples: BJ34826): -----

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-ecd48 06/23/15-1 (BJ34826)

The initial calibration (PC622AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC622BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner
Position: Chemist
Date: 6/23/2015

Instrument: Au-ecd6 06/24/15-1 (BJ34826)

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

The initial calibration (PC616AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC616BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner
Position: Chemist
Date: 6/24/2015

QC Comments: QC Batch 311607 06/22/15 (BJ34826)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BJ34395, QA/QC Batch: 311607 ----------

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)(36.1%)

SVOA Narration

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

Instrument: Chem05 06/23/15-1 (BJ34817, BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34829)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0623_02-SV_0615):
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: 2,4-dinitrophenol (33%L)[30%], Benzoic Acid (31%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-nitrophenol (.057)[0.1], Hexachlorobenzene (.084)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/23/2015

Instrument: Chem05 06/24/15-1 (BJ34824, BJ34825)

RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0624_02-SV_0615):
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: 2,4-dinitrophenol (44%L)[30%], Benzoic Acid (35%L)[30%], Hexachlorocyclopentadiene (34%L)[30%]
The following compounds did not meet maximum % deviations: 2,4-dinitrophenol (44%L)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.060)[0.1], Hexachlorobenzene (.086)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/24/2015

Instrument: Chem06 06/23/15-1 (BJ34817)

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/SV_0618):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0623_02-SV_0618):
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 (.080)[0.1], Hexachlorobenzene (.092)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/23/2015

Instrument: Chem19 06/25/15-1 (BJ34832)

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_0623):
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 (CHEM19/0625_02-SV_0623):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the initial calibration. The following

RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

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 (.079)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/25/2015

Instrument: Chem19 07/02/15-1 (BJ34833)

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_0623):
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 (CHEM19/0702_02-SV_0623):
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 (.069)[0.1], Hexachlorobenzene (.094)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 7/2/2015

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

QC (Batch Specific)

---------- Sample No: BJ34641, QA/QC Batch: 311600 ----------

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.

---------- Sample No: BJ34819, QA/QC Batch: 311605 ----------

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: BJ34833, QA/QC Batch: 312574 ----------

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.

SVOASIM Narration

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

Instrument: Chem04 06/23/15-1 (BJ34826)

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 Verification (CHEM04/SIM_0617):
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 (CHEM04/0623_08-SIM_0617):
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-chlorophenol (.715)[0.8], 2-nitrophenol (.029)[0.1], Bis(2-chloroethyl)ether (.622)[0.7]

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

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

Printed Name Damien Drobinski
Position: Chemist
Date: 6/23/2015

QC (Batch Specific)

---------- Sample No: BJ34641, QA/QC Batch: 311600 ----------

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.

---------- Sample No: BJ34819, QA/QC Batch: 311605 ----------

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: BJ34833, QA/QC Batch: 312574 ----------

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 311685 (Samples: BJ34826): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,1-Dichloroethene, Carbon Disulfide, Dichlorodifluoromethane, Trichlorotrifluoroethane)

QC Batch 312669 (Samples: BJ34823, BJ34832) ----

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

Instrument: Chem02 06/22/15-2 (BJ34826)

Initial Calibration Verification (CHEM02/VT-P0617):

RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM02/0622P10-VT-P0617):
98% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Bromomethane (38%H)[30%], Methylcyclohexane (33%L)[30%]
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

Printed Name Michael Hahn
Position: Chemist
Date: 6/22/2015

Instrument: Chem03 06/24/15-2 (BJ34819, BJ34821, BJ34824, BJ34825, BJ34827, BJ34833, BJ34834, BJ34835)

Initial Calibration Verification (CHEM03/VT-L0622):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (27%), Chloroethane (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0624L35-VT-L0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Jane Li
Position: Chemist
Date: 6/24/2015

Instrument: Chem03 07/01/15-2 (BJ34823, BJ34832)

Initial Calibration Verification (CHEM03/VT-L0622):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (27%), Chloroethane (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM03/0701L36-VT-L0622):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: None.

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

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 Jane Li
Position: Chemist
Date: 7/1/2015

QC Comments: QC Batch 311685 06/22/15 (BJ34826)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Batch Specific)

---------- Sample No: BJ34642, QA/QC Batch: 311685 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Trichlorotrifluoroethane(138%)

All LCSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(136%), Carbon Disulfide(137%), Dichlorodifluoromethane(136%), Trichlorotrifluoroethane(146%)

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

---------- Sample No: BJ35996, QA/QC Batch: 311932 ----------

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: BJ40041, QA/QC Batch: 312669 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Acetone(69%)

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)

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RCP Certification Report

July 17, 2015

SDG I.D.: GBJ34817

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

Loc WIC ID

CHAIN-OF-CUSTODY RECORD 33986

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Anocoil	Rockville, CT	20014454.P30	Phoenix

Report To: Kevin Vanderveer F+O
Invoice To: same
~~P.O. No.:~~ Quote: FO #40315BA
Sampler's Signature: Date: 6/22/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Equipment Blnk

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH	PAHs (8270 PCBs & metals Al, Fe, Mn, Pb)	RCRA 8 metals	pH	PCBs (soxhlet)	H2O2	Soil VOA Vial, methanol	Soil VOA Vial, water	Glass Soil Container (8 oz)	Na2(SO4)2	Other:	Other:	Water VOA Vial, As is	Glass Amber (1 L)	Plastic - As is, HCl	Plastic - As is	Plastic - H2SO4, 250 ml	Plastic - HNO3, 250 ml	Plastic - NaOH, 250 ml	Comments
048					125115062Z-048	S	6/22/15	0905		X	X					X				1									34817
049					-049			0915								X				1									34818
050					-050			0930	X	X	V	X	X	X			1	2		1										34819
051					-051			0935								X	1	2		1										34820
052					-052			0955	X	X	X	X	X	X			1	2		1										34821
053					-053			1005								X	1	2		1										34822
054					-054			1105	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~	~~X~~		X	1	2		1					34823					MOLD
055					-055			1110	X	X	X	X	X	X			1	2		1										34824
056					-056			1115	X	X	X	X	X	X			1	2		1										34825
057					-057	X		1130	X	X	X	X	X	X	X								3	4	1		34826			equipment blank

Transfer Number	Relinquished By	Accepted By	Date	Time
1		TF	6/22/15	16:10
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos: 057)
Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.
Additional Comments: GA PMC/ResDec. | Duplicate Analyses (no charge) same as -050

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☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

Logic IP

CHAIN-OF-CUSTODY RECORD 33713

Turnaround
☒ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014454.P30	Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO: same
P.O. NO.:
Sampler's Signature: _____ Date: 6/22/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs 8260	CT ETPH	PAHs @ 8270	RCRA 8 metals	Cu Ni Pb Zn Al	pH	Hold	Soil VOA Vial, methanol	Soil VOA Vial, water	Glass Soil Container (8) oz	Other: Glass 4oz	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
058		125115062Z-058	S	6/22/15	1200	X	X	X	X	X	X			1	2	1								34827
059		-059	↓	↓	1205								X	1	2	1								34828
060		-060			1320		X	X								1								34829
061		-061			1325							X				1								34830
062		-062			1400							X				1								34831
063		-063			1500		X	X	X		X					1								34832
064		-064	↓		1505	X								1	2		1							34833
065		-065	X		1340	X								1										34834
066		-066	X	↓	1341	X									2									34835

Transfer Number	Relinquished By	Accepted By	Date	Time
1			6/22/15	16:10
2				
3				
4				

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

GBJ 34817

Shannon - Phoenixlabs

From: Bobbi - Phoenixlabs [bobbi@phoenixlabs.com]
Sent: Wednesday, July 01, 2015 02:59 PM
To: 'Shannon - Phoenixlabs'
Subject: FW: Anocoil - run samples that are on hold

Can you add on and scan?

Bobbi Aloisa
Vice President
Director of Client Services
Phoenix Environmental Laboratories
587 East Middle Turnpike
Manchester, CT 06040
Ph: 860-645-8728

From: Sarah Rochelt [mailto:SRochelt@fando.com]
Sent: Wednesday, July 01, 2015 2:39 PM
To: bobbi@phoenixlabs.com
Cc: Brent Henebry; Kevin Vanderveer
Subject: Anocoil - run samples that are on hold

Please run the following samples: sampled on 6/22/2015
BJ34818 – PAHS
BJ34822 – PAHS, ETPH, Total Arsenic
BJ34823 – VOCs, PAHS, ETPH
BJ34828 - PAHS, Total Arsenic, Chromium, Lead
BJ34832 – VOCs
BJ34833 – ETPH, PAHS, Total Lead

Thanks
Sarah

Sarah Rochelt
Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5516 | srochelt@fando.com
www.fando.com | twitter | facebook | linkedin
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Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Tuesday, July 14, 2015 11:03 AM
To: bobbi@phoenixlabs.com
Cc: Paula M. Bibeau
Subject: Anocoil - Additional Analyses

Bobbi,

Can you run the following samples from Anocoil if you still have the samples:

- BJ35999 – SPLP chromium and lead; total hexavalent chromium if still within hold time
- BJ36000 – SPLP lead
- BJ33419 – Hexavalent chromium if still within hold time
- BJ34827 – Hexavalent chromium if still within hold time

I can't remember if the hold time for hexavalent chromium is shorter than regular metals. If it is out of hold time, don't analyze.

Thanks,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

PHOENIX
Environmental Laboratories, Inc.

Monday, June 29, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ35724 - BJ35728, BJ35730, BJ35732

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

REVIEWED **DMS**
By pbibeau at 1:58 pm, Jul 08, 2015

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

Analysis Report

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	9:30
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35724

Project ID: ANOCOIL
Client ID: 1251150623-067

SB-56 (0.25-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		06/23/15	W	SW846-%Solid
Extraction for PCB	Completed				06/23/15	QQ/X	SW3540C
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1221	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1232	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1242	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1248	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1254	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1260	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1262	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
PCB-1268	ND	0.36	mg/kg	10	06/24/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	94		%	10	06/24/15	AW	30 - 150 %
% TCMX	79		%	10	06/24/15	AW	30 - 150 %

Project ID: ANOCOIL
Client ID: 1251150623-067

SB-56 (0.25-0.5')

Phoenix I.D.: BJ35724

Parameter	Result	RL/ PQL	Units	Dilution	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.

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Phyllis Shiller, Laboratory Director
June 29, 2015
Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	10:00
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35725

Project ID: ANOCOIL
Client ID: 1251150623-068

SB-57 (0.5-5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Arsenic	2.3	0.7	mg/Kg	1	06/24/15	EK	SW6010C
Barium	31.8	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Chromium	15.1	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Copper	14.8	0.35	mg/kg	1	06/24/15	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/25/15	RS	SW7471B
Nickel	10.5	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Lead	12.7	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/24/15	EK	SW6010C
Zinc	29.1	0.35	mg/Kg	1	06/24/15	EK	SW6010C
Percent Solid	93		%		06/23/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/23/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
Mercury Digestion	Completed				06/25/15	U/U	SW7471B
Extraction for PCB	Completed				06/23/15	QQ/X	SW3540C
Total Metals Digest	Completed				06/23/15	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	52	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	06/24/15	JRB	50 - 150 %
PCB (Soxhlet SW3540C)							
PCB-1016	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1221	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1232	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A

Project ID: ANOCOIL
Client ID: 1251150623-068 SB-57 (0.5-5')

Phoenix I.D.: BJ35725

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
PCB-1242	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1248	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1254	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1260	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1262	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
PCB-1268	ND	0.35	mg/kg	10	06/24/15	AW	SW8082A
QA/QC Surrogates							
% DCBP	122		%	10	06/24/15	AW	30 - 150 %
% TCMX	81		%	10	06/24/15	AW	30 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Acenaphthene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Acenaphthylene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Anthracene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Benz(a)anthracene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Benzo(a)pyrene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Benzo(ghi)perylene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Chrysene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Fluoranthene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Fluorene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Naphthalene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Phenanthrene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
Pyrene	ND	500	ug/Kg	2	06/24/15	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	77		%	2	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	82		%	2	06/24/15	DD	30 - 130 %
% Terphenyl-d14	81		%	2	06/24/15	DD	30 - 130 %

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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Phyllis Shiller, Laboratory Director
June 29, 2015
Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	11:00
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35726

Project ID: ANOCOIL
Client ID: 1251150623-069

SB-58 (11-14.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		06/23/15	W	SW846-%Solid
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	59	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	06/24/15	JRB	50 - 150 %

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

Comments:

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Phyllis Shiller, Laboratory Director
June 29, 2015
Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	11:05
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35727

Project ID: ANOCOIL
Client ID: 1251150623-070

SB-58 (16-18')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	67		%		06/23/15	W	SW846-%Solid
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	4500	370	mg/Kg	5	06/25/15	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	06/25/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	93		%	5	06/25/15	JRB	50 - 150 %

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

Comments:

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

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Phyllis Shiller, Laboratory Director
June 29, 2015
Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	12:30
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35728

Project ID: ANOCOIL
Client ID: 1251150623-071 SB-59 (2.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	82		%		06/23/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/23/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	60	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	06/24/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benz(a)anthracene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(a)pyrene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(ghi)perylene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Chrysene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Fluoranthene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Phenanthrene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Pyrene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150623-071

SB-59 (2.5-4')

Phoenix I.D.: BJ35728

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	06/24/15	DD	30 - 130 %
% Terphenyl-d14	66		%	1	06/24/15	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director

June 29, 2015

Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	13:40
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35730

Project ID: ANOCOIL
Client ID: 1251150623-073

SB-60 (0.5-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	81		%		06/23/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/23/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	61	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	06/24/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthylene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Anthracene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Benz(a)anthracene	950	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(a)pyrene	870	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	1200	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(ghi)perylene	520	280	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	510	280	ug/Kg	1	06/24/15	DD	SW8270D
Chrysene	870	280	ug/Kg	1	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Fluoranthene	1700	280	ug/Kg	1	06/24/15	DD	SW8270D
Fluorene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	590	280	ug/Kg	1	06/24/15	DD	SW8270D
Naphthalene	ND	280	ug/Kg	1	06/24/15	DD	SW8270D
Phenanthrene	850	280	ug/Kg	1	06/24/15	DD	SW8270D
Pyrene	1500	280	ug/Kg	1	06/24/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150623-073

SB-60 (0.5-1')

Phoenix I.D.: BJ35730

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/24/15	DD	30 - 130 %
% Terphenyl-d14	76		%	1	06/24/15	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director

June 29, 2015

Reviewed and Released by: Ethan Lee, 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

June 29, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/23/15	14:25
Location Code:	F&O-PCB	Received by:	LPB	06/23/15	17:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35724
Phoenix ID: BJ35732

Project ID: ANOCOIL
Client ID: 1251150623-075

SB-61 (6-8')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	63		%		06/23/15	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/23/15	BJ/VH	SW3545A
Extraction of CT ETPH	Completed				06/23/15	BC/V	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	79	mg/Kg	1	06/24/15	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/24/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	80		%	1	06/24/15	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Acenaphthylene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Anthracene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Benz(a)anthracene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(a)pyrene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(b)fluoranthene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(ghi)perylene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Benzo(k)fluoranthene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Chrysene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Fluoranthene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Fluorene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Naphthalene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Phenanthrene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D
Pyrene	ND	370	ug/Kg	1	06/24/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150623-075

SB-61 (6-8')

Phoenix I.D.: BJ35732

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	06/24/15	DD	30 - 130 %
% Nitrobenzene-d5	67		%	1	06/24/15	DD	30 - 130 %
% Terphenyl-d14	82		%	1	06/24/15	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

June 29, 2015

Reviewed and Released by: Ethan Lee, 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

June 29, 2015

QA/QC Data

SDG I.D.: GBJ35724

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 311734 (mg/kg), QC Sample No: BJ35478 (BJ35725)													
ICP Metals - Soil													
Arsenic	BRL	0.67	3.5	3.26	NC	102	109	6.6	96.8	97.4	0.6	75 - 125	30
Barium	BRL	0.33	77.5	71.3	8.30	98.8	109	9.8	97.4	103	5.6	75 - 125	30
Cadmium	BRL	0.33	<0.37	<0.39	NC	101	105	3.9	98.5	98.7	0.2	75 - 125	30
Chromium	BRL	0.33	16.0	16.9	5.50	101	106	4.8	99.0	101	2.0	75 - 125	30
Copper	BRL	0.33	13.3	12.7	4.60	101	106	4.8	105	105	0.0	75 - 125	30
Lead	BRL	0.33	80.9	75.8	6.50	102	108	5.7	95.5	107	11.4	75 - 125	30
Nickel	BRL	0.33	18.1	17.1	5.70	97.4	102	4.6	95.7	97.4	1.8	75 - 125	30
Selenium	BRL	1.3	<1.5	<1.5	NC	90.4	95.4	5.4	88.9	89.6	0.8	75 - 125	30
Silver	BRL	0.33	<0.37	<0.39	NC	99.8	106	6.0	98.8	99.4	0.6	75 - 125	30
Zinc	BRL	0.33	36.0	33.5	7.20	97.4	103	5.6	95.2	98.4	3.3	75 - 125	30
QA/QC Batch 311887 (mg/kg), QC Sample No: BJ35996 (BJ35725)													
Mercury - Soil	BRL	0.06	0.08	0.07	NC	89.4	94.6	5.7	102	93.3	8.9	70 - 130	30

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

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QA/QC Report

June 29, 2015

QA/QC Data

SDG I.D.: GBJ35724

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 311725 (mg/kg), QC Sample No: BJ35073 10X (BJ35724, BJ35725)										
Polychlorinated Biphenyls - Soil										
PCB-1016	ND	0.17	75						40 - 140	30
PCB-1221	ND	0.17							40 - 140	30
PCB-1232	ND	0.17							40 - 140	30
PCB-1242	ND	0.17							40 - 140	30
PCB-1248	ND	0.17							40 - 140	30
PCB-1254	ND	0.17							40 - 140	30
PCB-1260	ND	0.17	77						40 - 140	30
PCB-1262	ND	0.17							40 - 140	30
PCB-1268	ND	0.17							40 - 140	30
% DCBP (Surrogate Rec)	66	%	80						30 - 150	30
% TCMX (Surrogate Rec)	76	%	80						30 - 150	30
Comment:										
Only the LCS could be reported for this batch.										
QA/QC Batch 311726 (mg/Kg), QC Sample No: BJ35725 (BJ35725, BJ35726, BJ35727, BJ35728, BJ35730, BJ35732)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum HC	ND	50	58	63	8.3	67	65	3.0	30 - 130	30
% n-Pentacosane	67	%	74	63	16.1	64	63	1.6	50 - 150	30
QA/QC Batch 311723 (ug/kg), QC Sample No: BJ35725 (BJ35725, BJ35728, BJ35730, BJ35732)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	94	93	1.1	103	101	2.0	30 - 130	30
Acenaphthene	ND	230	86	86	0.0	90	89	1.1	30 - 130	30
Acenaphthylene	ND	230	87	86	1.2	92	90	2.2	30 - 130	30
Anthracene	ND	230	95	95	0.0	95	94	1.1	30 - 130	30
Benz(a)anthracene	ND	230	101	98	3.0	101	95	6.1	30 - 130	30
Benzo(a)pyrene	ND	230	99	98	1.0	95	91	4.3	30 - 130	30
Benzo(b)fluoranthene	ND	230	97	100	3.0	104	94	10.1	30 - 130	30
Benzo(ghi)perylene	ND	230	95	95	0.0	76	75	1.3	30 - 130	30
Benzo(k)fluoranthene	ND	230	97	95	2.1	91	97	6.4	30 - 130	30
Chrysene	ND	230	97	99	2.0	99	95	4.1	30 - 130	30
Dibenz(a,h)anthracene	ND	230	97	98	1.0	79	78	1.3	30 - 130	30
Fluoranthene	ND	230	98	98	0.0	99	97	2.0	30 - 130	30
Fluorene	ND	230	93	92	1.1	94	94	0.0	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	102	102	0.0	82	78	5.0	30 - 130	30
Naphthalene	ND	230	89	88	1.1	99	96	3.1	30 - 130	30
Phenanthrene	ND	230	95	94	1.1	96	93	3.2	30 - 130	30
Pyrene	ND	230	96	96	0.0	100	97	3.0	30 - 130	30
% 2-Fluorobiphenyl	69	%	83	81	2.4	88	85	3.5	30 - 130	30
% Nitrobenzene-d5	68	%	82	86	4.8	91	92	1.1	30 - 130	30
% Terphenyl-d14	90	%	93	92	1.1	92	89	3.3	30 - 130	30

QA/QC Data

SDG I.D.: GBJ35724

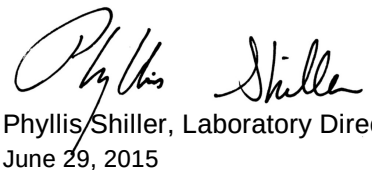
Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

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%)

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
June 29, 2015

Sample Criteria Exceedences Report

GBJ35724 - FO-PCB

Criteria: CT: GAM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ35727	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GA/GAA PMC (mg/kg	4500	370	500	500	mg/Kg
BJ35727	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	4500	370	500	500	mg/Kg
BJ35730	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GA/GAA PMC (	1200	280	1000	1000	ug/Kg
BJ35730	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	280	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ35724, BJ35725, BJ35726, BJ35727, BJ35728, BJ35730, BJ35732

Sampling Date(s): 6/23/2015

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 achieved?	☑ 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Monday, June 29, 2015

Printed Name: Ethan Lee

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 29, 2015

SDG I.D.: GBJ35724

Metals Analysis:
The client requested a short list of analytes from the 6010 RCP Metals list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

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

ETPH Narration

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

Instrument: Au-fid84 06/24/15-2 (BJ35725)

Initial Calibration (FID84 - ETPH_413) - 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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624A017_1) and contained the following outliers:
C36 (75.2%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

Instrument: Aufid-d1 06/24/15-1 (BJ35725)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624B003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

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RCP Certification Report

June 29, 2015

SDG I.D.: GBJ35724

Instrument: Aufid-d1 06/24/15-2 (BJ35726, BJ35727, BJ35728, BJ35730, BJ35732)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624B016_1) and contained the following outliers:
C36 (36.7%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

Instrument: Au-xl2 06/24/15-2 (BJ35725)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (624A016_1) and contained the following outliers:
C36 (95.8%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/24/2015

QC (Batch Specific)

---------- Sample No: BJ35725, QA/QC Batch: 311726 ----------

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.

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RCP Certification Report

June 29, 2015

SDG I.D.: GBJ35724

Mercury Narration

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

Instrument: Merlin 06/25/15-1 (BJ35725)

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: 6/25/2015

QC (Batch Specific)

---------- Sample No: BJ35996, QA/QC Batch: 311887 ----------

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 06/24/15-1 (BJ35725)

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: 6/24/2015

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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RCP Certification Report

June 29, 2015

SDG I.D.: GBJ35724

QC (Batch Specific)

---------- Sample No: BJ35478, QA/QC Batch: 311734 ----------

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.

PCB Narration

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

Instrument: Au-ecd24 06/24/15-1 (BJ35724, BJ35725)

The initial calibration (PC618AI) RSD for the compound list was less than 20% except for the following compounds: None.

The initial calibration (PC618BI) RSD for the compound list was less than 20% except for the following compounds: None.

The continuing calibration %D for the compound list was less than 15% except for the following compounds: None.

Printed Name Adam Werner
Position: Chemist
Date: 6/24/2015

QC Comments: QC Batch 311725 06/23/15 (BJ35724, BJ35725)

Only the LCS could be reported for this batch.

QC (Batch Specific)

---------- Sample No: BJ35073, QA/QC Batch: 311725 ----------

All LCS recoveries were within 40 - 140 with the following exceptions: None.

SVOA Narration

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

Instrument: Chem05 06/24/15-1 (BJ35725, BJ35728, BJ35730, BJ35732)

Initial Calibration Verification (CHEM05/SV_0615):
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 (CHEM05/0624_02-SV_0615):
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: 2,4-dinitrophenol (44%L)[30%], Benzoic Acid (35%L)[30%], Hexachlorocyclopentadiene

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RCP Certification Report

June 29, 2015

SDG I.D.: GBJ35724

(34%L)[30%]
The following compounds did not meet maximum % deviations: 2,4-dinitrophenol (44%L)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.060)[0.1], Hexachlorobenzene (.086)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/24/2015

QC (Batch Specific)

---------- Sample No: BJ35725, QA/QC Batch: 311723 ----------

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.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

4°C WIC IP

CHAIN-OF-CUSTODY RECORD 32607

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014S4.P30	Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO: same
~~P.O. NO.~~: Quote: FO 04031SBA
Sampler's Signature: [signature] Date: 6/23/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request: PCBs (soxhlet) | CT ETPH | PAHs (8270) | RCRA 8 metals Cu, Ni, Zn | Hold

Containers: Soil VOA Vial, ☒ Methanol | Soil VOA Vial, ☒ water | Glass Soil Container (8) oz | ☐ $Na(SO_4)_2$ | Other: Glass 4oz | Other: | Water VOA Vial, ☐ As is ☐ HCl | Glass Amber (___) ml, ☐ As is ☐ As is ☐ H_2SO_4 | Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml | Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml | Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ | Plastic - NaOH, 250 ml

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PCBs	CT ETPH	PAHs	RCRA 8 metals	Cu, Ni, Zn	Hold	Soil VOA Vial, Methanol	Soil VOA Vial, water	Glass Soil Container (8) oz	Other: Glass 4oz	Other:	Water VOA Vial, As is HCl	Glass Amber ( ) ml, As is	Plastic - As is, 250 ml 500 ml 1000 ml	Plastic - H_2SO_4, 250 ml 500 ml	Plastic - HNO_3, 250 ml Filtered 0.45µ	Plastic - NaOH, 250 ml	Comments
067					1251150623-067	S	6/23/15	0930	X						1		1									35724
068					-068			1000	X	X	X	X	X				1									35725
069					-069			1100		X							1									35726
070					-070			1105		X							1									35727
071					-071			1230		X	X						1									35728
072					-072			1240						X			1									35729
073					-073			1340		X	X						1									35730
074					-074			1420						X			1	4								35731
075					-075	↓	↓	1425		X	X						1	4								35732

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	FEDEX	6/23/15	17:34
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res Dec
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Monday, July 20, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ35999 - BJ36002

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED DMS
By pbibeau at 1:20 pm, Jul 24, 2015

PHOENIX
Environmental Laboratories, Inc.

Tuesday, July 07, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ35999 - BJ36002

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED
By pbibeau at 1:27 pm, Jul 08, 2015 DMS

PHOENIX
Environmental Laboratories, Inc.

Tuesday, June 30, 2015

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

Project ID: ANOCOIL
Sample ID#s: BJ35999, BJ36001 - BJ36002

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

REVIEWED **DMS**
By pbibeau at 8:35 am, Jul 07, 2015

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 20, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/24/15	12:50
Location Code:	F&O	Received by:	LK	06/24/15	14:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35999
Phoenix ID: BJ35999

Project ID: ANOCOIL
Client ID: 1251150624-076

SB-62 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	06/25/15	LK	SW6010C
Aluminum	5990	63	mg/Kg	10	06/25/15	EK	SW6010C
Arsenic	3.2	0.8	mg/Kg	1	06/25/15	LK	SW6010C
Barium	62.2	0.42	mg/Kg	1	06/25/15	LK	SW6010C
Cadmium	0.47	0.42	mg/Kg	1	06/25/15	LK	SW6010C
Chromium	108	0.42	mg/Kg	1	06/25/15	LK	SW6010C
Mercury	0.75	0.03	mg/Kg	1	06/25/15	RS	SW7471B
Lead	220	4.2	mg/Kg	10	06/25/15	EK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	06/25/15	LK	SW6010C
SPLP Chromium	0.019	0.010	mg/L	1	07/16/15	LK	SW6010C
SPLP Lead	0.020	0.010	mg/L	1	07/16/15	LK	SW6010C
SPLP Metals Digestion	Completed				07/15/15	I/I	SW3005A
Percent Solid	77		%		06/24/15	W	SW846-%Solid
Chromium, Hexavalent	< 0.52	0.52	mg/Kg	1	07/15/15	KH	SW7196A
pH - Soil	7.34	0.10	pH Units	1	07/14/15 20:10	DH/EG	SW9045
Redox Potential	234	1.0	mV	1	07/14/15	DH/EG	SM2580B-09
Mercury Digestion	Completed				06/25/15	U/U	SW7471B
SPLP Extraction for Metals	Completed				07/14/15	I	SW1312
Total Metals Digest	Completed				06/24/15	G/AG	SW3050B

Project ID: ANOCOIL
Client ID: 1251150624-076

SB-62 (2-4')

Phoenix I.D.: BJ35999

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

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

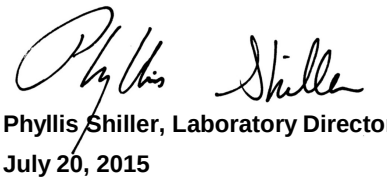
Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Hexavalent Chromium:
This sample is in a reducing state.

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 20, 2015
Reviewed and Released by: Ethan Lee, 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

July 20, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/24/15	13:00
Location Code:	F&O	Received by:	LK	06/24/15	14:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35999
Phoenix ID: BJ36000

Project ID: ANOCOIL
Client ID: 1251150624-077 SB-62 (4-6')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chromium	25.0	0.38	mg/Kg	1	07/01/15	EK	SW6010C
Lead	377	3.8	mg/Kg	10	07/03/15	LK	SW6010C
SPLP Lead	0.035	0.010	mg/L	1	07/16/15	EK	SW6010C
SPLP Metals Digestion	Completed				07/15/15	I/I	SW3005A
Percent Solid	84		%		06/30/15	I	SW846-%Solid
SPLP Extraction for Metals	Completed				07/14/15	I	SW1312
Total Metals Digest	Completed				06/30/15	G/AG	SW3050B

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.
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Phyllis Shiller, Laboratory Director
July 20, 2015
Reviewed and Released by: Ethan Lee, 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

June 30, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/24/15	13:20
Location Code:	F&O	Received by:	LK	06/24/15	14:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35999
Phoenix ID: BJ36001

Project ID: ANOCOIL
Client ID: 1251150624-078

SB-63 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.38	0.38	mg/Kg	1	06/25/15	LK	SW6010C
Aluminum	4980	56	mg/Kg	10	06/25/15	EK	SW6010C
Arsenic	8.8	0.8	mg/Kg	1	06/25/15	LK	SW6010C
Barium	49.1	0.38	mg/Kg	1	06/25/15	LK	SW6010C
Cadmium	1.17	0.38	mg/Kg	1	06/25/15	LK	SW6010C
Chromium	34.8	0.38	mg/Kg	1	06/25/15	LK	SW6010C
Mercury	0.56	0.03	mg/Kg	1	06/25/15	RS	SW7471B
Lead	130	0.38	mg/Kg	1	06/25/15	LK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/25/15	LK	SW6010C
Percent Solid	90		%		06/24/15	W	SW846-%Solid
Mercury Digestion	Completed				06/25/15	U/U	SW7471B
Total Metals Digest	Completed				06/24/15	G/AG	SW3050B

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.
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Phyllis Shiller, Laboratory Director
June 30, 2015
Reviewed and Released by: Ethan Lee, 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

June 30, 2015

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

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/24/15	14:15
Location Code:	F&O	Received by:	LK	06/24/15	14:36
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ35999
Phoenix ID: BJ36002

Project ID: ANOCOIL
Client ID: 1251150624-079 MW-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/26/15	LK	SW6010C
Aluminum	3.57	0.010	mg/L	1	06/26/15	LK	SW6010C
Arsenic	0.007	0.004	mg/L	1	06/26/15	LK	SW6010C
Barium	0.048	0.002	mg/L	1	06/26/15	LK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/26/15	LK	SW6010C
Chromium	0.012	0.001	mg/L	1	06/26/15	LK	SW6010C
Copper	0.018	0.005	mg/L	1	06/26/15	LK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/26/15	RS	SW7470A
Nickel	0.005	0.001	mg/L	1	06/26/15	LK	SW6010C
Lead	0.004	0.002	mg/L	1	06/26/15	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/26/15	LK	SW6010C
Zinc	0.044	0.002	mg/L	1	06/26/15	LK	SW6010C
Mercury Digestion	Completed				06/26/15	U/U	SW7470A
Total Metals Digestion	Completed				06/24/15	AG	SW3050B

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.
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Phyllis Shiller, Laboratory Director
June 30, 2015
Reviewed and Released by: Ethan Lee, 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

July 20, 2015

QA/QC Data

SDG I.D.: GBJ35999

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 313890 (mg/kg), QC Sample No: BJ33419 (BJ35999)														
Chromium, Hexavalent (SW3060 digestion) - Solid														
Hexavalent Cr	BRL	0.40	5.52	5.85	5.80	96.9						70 - 130	30	
Insoluble Cr						109			100			70 - 130	30	
Soluble Cr						100			116			70 - 130	30	
QA/QC Batch 311887 (mg/kg), QC Sample No: BJ35996 (BJ35999, BJ36001)														
Mercury - Soil	BRL	0.06	0.08	0.07	NC	89.4	94.6	5.7	102	93.3	8.9	70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 311837 (mg/kg), QC Sample No: BJ35999 (BJ35999, BJ36001)														
ICP Metals - Soil														
Aluminum	BRL	5.0	5970	5710	4.50	107	107	0.0	NC	NC	NC	75 - 125	30	
Arsenic	BRL	0.67	3.2	6.66	NC	94.6	94.4	0.2	96.1	95.2	0.9	75 - 125	30	
Barium	BRL	0.33	62.2	81.0	26.3	99.5	97.6	1.9	94.3	98.9	4.8	75 - 125	30	
Cadmium	BRL	0.33	0.47	3.22	NC	93.1	92.4	0.8	95.6	94.8	0.8	75 - 125	30	
Chromium	BRL	0.33	108	168	43.5	97.6	98.0	0.4	101	110	8.5	75 - 125	30	r
Lead	BRL	0.33	215	316	38.0	92.6	93.6	1.1	>130	121	NC	75 - 125	30	m,r
Selenium	BRL	1.3	<1.7	<1.6	NC	81.0	79.9	1.4	87.9	85.4	2.9	75 - 125	30	
Silver	BRL	0.33	<0.42	<0.40	NC	104	105	1.0	110	111	0.9	75 - 125	30	
QA/QC Batch 311960 (mg/L), QC Sample No: BJ36604 (BJ36002)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.048	0.059	NC	95.6	96.9	1.4	98.9	97.3	1.6	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.1	99.2	1.1	99.5	99.9	0.4	75 - 125	20	
Barium	BRL	0.002	0.025	0.024	4.10	104	105	1.0	103	102	1.0	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	99.2	101	1.8	96.5	97.1	0.6	75 - 125	20	
Chromium	BRL	0.001	0.009	0.009	0	98.0	99.1	1.1	95.4	96.1	0.7	75 - 125	20	
Copper	BRL	0.005	0.010	0.009	NC	101	102	1.0	103	103	0.0	75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	97.9	98.9	1.0	95.1	96.0	0.9	75 - 125	20	
Nickel	BRL	0.001	0.002	0.002	NC	103	104	1.0	99.8	100	0.2	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	96.9	97.3	0.4	96.9	97.8	0.9	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	99.2	100	0.8	101	101	0.0	75 - 125	20	
Zinc	BRL	0.002	0.074	0.073	1.40	98.8	99.5	0.7	99.5	99.4	0.1	75 - 125	20	
QA/QC Batch 312025 (mg/L), QC Sample No: BJ36614 (BJ36002)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	112	84.6	27.9				70 - 130	20	r
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 312312 (mg/kg), QC Sample No: BJ38996 (BJ36000)														
ICP Metals - Soil														
Chromium	BRL	0.33	29.6	29.1	1.70	102	105	2.9	96.3	96.4	0.1	75 - 125	30	
Lead	BRL	0.33	10.9	11.2	2.70	95.0	93.4	1.7	87.9	86.9	1.1	75 - 125	30	

QA/QC Data

SDG I.D.: GBJ35999

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313836 (mg/L), QC Sample No: BJ46817 (BJ35999, BJ36000)													
ICP Metals - SPLP Extraction													
Chromium	BRL	0.010	<0.010	<0.010	NC	103	103	0.0	106	104	1.9	75 - 125	20
Lead	BRL	0.010	<0.010	<0.010	NC	105	105	0.0	108	107	0.9	75 - 125	20

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 20, 2015

QA/QC Data

SDG I.D.: GBJ35999

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 313870 (PH), QC Sample No: BJ46103 (BJ35999)													
pH - Soil			5.08	4.98	2.00	99.7						85 - 115	20

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 20, 2015

Sample Criteria Exceedences Report

GBJ35999 - FO

Criteria: CT: GAM, GWP, RC, RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ35999	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.020	0.010	0.015	0.015	mg/L
BJ36000	SPLP-PB	SPLP Lead	CT / INORGANIC SUBSTANCES / GA/GAA PMC (mg/l)**	0.035	0.010	0.015	0.015	mg/L
BJ36002	AS-WM	Arsenic	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.007	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ35999, BJ36000, BJ36001, BJ36002

Sampling Date(s): 6/24/2015

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: Mercury 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Monday, July 20, 2015

Printed Name: Ethan Lee

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 20, 2015

SDG I.D.: GBJ35999

BJ35999, BJ36001 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BJ36002 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

BJ36000 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Arsenic, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, and Zinc.

Soil Hex Chromium Narration

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

Instrument: Spect 07/15/15-1 (BJ35999)

The initial calibration met criteria, the calibration "r" > 0.995

Three LCS solutions were evaluated and reported:
The hexavalent Chromium LCS does not require digestion and is used as a continuing calibration standard.
The insoluble and soluble spikes (LCS) monitor the performance of the extraction.
The insoluble and soluble matrix spikes monitor the effect of matrix on the recoveries of hexavalent chromium.
Some matrix spike recoveries may be outside of the acceptance criteria of 75-125, however the corresponding LCSs are within control. No further action is required, but a sample matrix bias is suspected.

Printed Name Kristina Hagelin
Position: Chemist
Date: 7/15/2015

QC (Batch Specific)

---------- Sample No: BJ33419, QA/QC Batch: 313890 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

Mercury Narration

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

QC Batch 312025 (Samples: BJ36002): -----

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. (Mercury)

Instrument: Merlin 06/25/15-1 (BJ35999, BJ36001)

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.

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 20, 2015

SDG I.D.: GBJ35999

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: 6/25/2015

Instrument: Merlin 06/26/15-1 (BJ36002)

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: 6/26/2015

QC (Batch Specific)

---------- Sample No: BJ35996, QA/QC Batch: 311887 ----------

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: BJ36614, QA/QC Batch: 312025 ----------

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: Mercury(27.9%)

ICP Narration

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

Instrument: Arcos 06/25/15-1 (BJ35999, BJ36001)

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 20, 2015

SDG I.D.: GBJ35999

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: 6/25/2015

Instrument: Arcos 07/01/15-1 (BJ36000)

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: 7/1/2015

Instrument: Arcos 07/02/15-1 (BJ36000)

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: 7/2/2015

Instrument: Arcos 07/15/15-1 (BJ35999, BJ36000)

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: 7/15/2015

Instrument: Arcos 07/16/15-1 (BJ35999, BJ36000)

The initial calibration met criteria.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 20, 2015

SDG I.D.: GBJ35999

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: 7/16/2015

Instrument: Blue 06/25/15-1 (BJ36002)

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: 6/25/2015

Instrument: Blue 06/26/15-1 (BJ36002)

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: 6/26/2015

Instrument: Blue 07/16/15-1 (BJ36000)

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: 7/16/2015

Instrument: Blue 07/17/15-1 (BJ36000)

The initial calibration met criteria.

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 20, 2015

SDG I.D.: GBJ35999

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: 7/17/2015

QC (Batch Specific)

---------- Sample No: BJ35999, QA/QC Batch: 311837 ----------

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: BJ36604, QA/QC Batch: 311960 ----------

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: BJ38996, QA/QC Batch: 312312 ----------

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: BJ46817, QA/QC Batch: 313836 ----------

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.

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 20, 2015

SDG I.D.: GBJ35999

4°C WIC IP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

CHAIN-OF-CUSTODY RECORD 33711

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville CT	2001454.P30	Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO:
~~P.O. No.~~ Quote? Selme FO 040315BA
Sampler's Signature: _____ Date: 6/24/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	TCLP 8 metals	Aluminum, Al, Cu, Ni, Zn	HOLD	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz ☐ $Na_2(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is; ☒ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
					125115062 4-076	S	6/24/15	1250	X	X				1									35999
					-077	↓	↓	1300			X			1									36000
					-078	↓	↓	1320	X	X				1									36001
					-079	MW	↓	1415	X		X								1				36002

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	TH	6/24/15	1430
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
___ Duplicates ___ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GA PMC / Res DEC, SWPC, Res VC
Additional Comments:

Bobbi - Phoenixlabs

From: Sarah Rochelt [SRochelt@fando.com]
Sent: Tuesday, June 30, 2015 10:09 AM
To: bobbi@phoenixlabs.com
Cc: Brent Henebry; Kevin Vanderveer
Subject: Anocoil - run sample that is on hold

Hi Bobbi,

Please run sample BJ36000 (F&O sample number 1251150624-077) for total lead and total chromium.

Thanks

Sarah

Sarah Rochelt
Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5516 | srochelt@fando.com
www.fando.com | twitter | facebook | linkedin
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

Bobbi - Phoenixlabs

From: Kevin Vanderveer [KVanderveer@fando.com]
Sent: Tuesday, July 14, 2015 11:03 AM
To: bobbi@phoenixlabs.com
Cc: Paula M. Bibeau
Subject: Anocoil - Additional Analyses

Bobbi,

Can you run the following samples from Anocoil if you still have the samples:

- BJ35999 – SPLP chromium and lead; total hexavalent chromium if still within hold time
- BJ36000 – SPLP lead
- BJ33419 – Hexavalent chromium if still within hold time
- BJ34827 – Hexavalent chromium if still within hold time

I can't remember if the hold time for hexavalent chromium is shorter than regular metals. If it is out of hold time, don't analyze.

Thanks,

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 22, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN51262 - BN51274

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 1:07 pm, Jun 22, 2016

PHOENIX
Environmental Laboratories, Inc.

Tuesday, June 21, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN51262 - BN51274

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

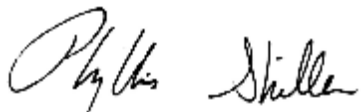
This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

REVIEWED **DMS**
By pbibeau at 1:07 pm, Jun 22, 2016

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

June 22, 2016

SDG I.D.: GBN51262

Version 2:
ETPH result and reporting level were revised for BN51262 (1251160508-01)

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

Analysis Report

June 22, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	9:30
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51262

Project ID: FORMER ANOCOIL
Client ID: 1251160608-01

MW-11 (0-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	1.8	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	37.5	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	8.66	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Copper	10.6	0.35	mg/kg	1	06/10/16	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	5.62	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Lead	37.6	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	40.5	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	93		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	160	140	mg/Kg	5	06/09/16	J/P	CTETPH 8015D
Identification	**		mg/Kg	5	06/09/16	J/P	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	98		%	5	06/09/16	J/P	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/08/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/08/16	DD	SW8270D
Acenaphthylene	330	250	ug/Kg	1	06/08/16	DD	SW8270D
Anthracene	280	250	ug/Kg	1	06/08/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-01

MW-11 (0-1.5')

Phoenix I.D.: BN51262

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	2200	250	ug/Kg	1	06/08/16	DD	SW8270D
Benzo(a)pyrene	2500	250	ug/Kg	1	06/08/16	DD	SW8270D
Benzo(b)fluoranthene	2100	250	ug/Kg	1	06/08/16	DD	SW8270D
Benzo(ghi)perylene	1400	250	ug/Kg	1	06/08/16	DD	SW8270D
Benzo(k)fluoranthene	1800	250	ug/Kg	1	06/08/16	DD	SW8270D
Chrysene	2200	250	ug/Kg	1	06/08/16	DD	SW8270D
Dibenz(a,h)anthracene	360	250	ug/Kg	1	06/08/16	DD	SW8270D
Fluoranthene	3800	250	ug/Kg	1	06/08/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/08/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1500	250	ug/Kg	1	06/08/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/08/16	DD	SW8270D
Phenanthrene	940	250	ug/Kg	1	06/08/16	DD	SW8270D
Pyrene	4000	250	ug/Kg	1	06/08/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	06/08/16	DD	30 - 130 %
% Nitrobenzene-d5	59		%	1	06/08/16	DD	30 - 130 %
% Terphenyl-d14	60		%	1	06/08/16	DD	30 - 130 %

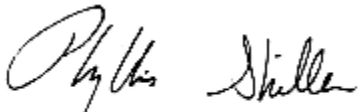
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C9 to C36 range. The sample was quantitated against a C9-C36 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
June 22, 2016
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

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	12:50
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51263

Project ID: FORMER ANOCOIL
Client ID: 1251160608-03

MW-14 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	3.1	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	102	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	14.1	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Copper	19.5	0.35	mg/kg	1	06/10/16	EK	SW6010C
Mercury	0.06	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	8.96	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Lead	94.5	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	71.2	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	90		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	100	55	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-03

MW-14 (0-2')

Phoenix I.D.: BN51263

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	340	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	410	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	460	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	300	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	350	250	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	480	250	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	900	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	340	250	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	270	250	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	760	250	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	65		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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

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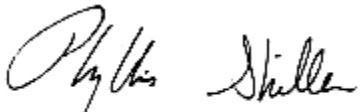

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	13:10
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51264

Project ID: FORMER ANOCOIL
Client ID: 1251160608-04

MW-14 (10-12')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	8.3	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	64.2	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	12.8	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Copper	17.1	0.37	mg/kg	1	06/10/16	EK	SW6010C
Mercury	0.14	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	6.95	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Lead	95.8	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	61.6	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	90		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	54	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	97		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-04

MW-14 (10-12')

Phoenix I.D.: BN51264

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	380	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	420	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	430	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	280	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	330	260	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	500	260	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	780	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	300	260	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	400	260	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	790	260	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	73		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, 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

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	14:20
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51265

Project ID: FORMER ANOCOIL SB-64 (0-2')
Client ID: 1251160608-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	2.8	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	44.8	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	11.3	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Copper	14.0	0.37	mg/kg	1	06/10/16	EK	SW6010C
Mercury	0.24	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	7.18	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Lead	58.8	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	49.2	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	93		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	89		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	310	250	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-05

SB-64 (0-2')

Phoenix I.D.: BN51265

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	660	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	840	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	690	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	560	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	610	250	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	750	250	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	1200	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	600	250	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	570	250	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	1200	250	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	77		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, 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

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	14:30
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51266

Project ID: FORMER ANOCOIL
Client ID: 1251160608-06 SB-64 (10-12.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.37	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	10.1	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	78.3	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	0.78	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	28.7	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Copper	73.2	0.37	mg/kg	1	06/10/16	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	10.7	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Lead	133	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.5	1.5	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	132	0.37	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	89		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	56	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-06

SB-64 (10-12.5')

Phoenix I.D.: BN51266

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	590	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	640	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	590	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	400	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	500	260	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	720	260	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	1200	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	450	260	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	610	260	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	1200	260	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	77		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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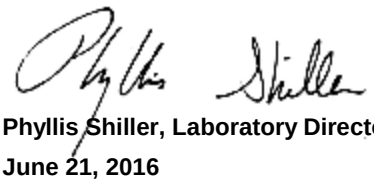

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	15:05
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51267

Project ID: FORMER ANOCOIL
Client ID: 1251160608-07 SB-65 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.33	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	0.8	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	20.2	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.33	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	5.83	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Copper	4.97	0.33	mg/kg	1	06/10/16	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	3.93	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Lead	2.88	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.3	1.3	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	10.7	0.33	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	92		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	89		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-07

SB-65 (0.5-2')

Phoenix I.D.: BN51267

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, 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

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	15:15
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51268

Project ID: FORMER ANOCOIL
Client ID: 1251160608-08

SB-65 (5-6.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	1.3	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	20.0	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	8.51	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Copper	5.67	0.35	mg/kg	1	06/10/16	EK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	4.52	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Lead	2.61	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	12.5	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	93		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	54	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	94		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-08

SB-65 (5-6.5')

Phoenix I.D.: BN51268

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	80		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, 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

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	15:25
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51269

Project ID: FORMER ANOCOIL
Client ID: 1251160608-09 SB-66 (0-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	2.5	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	47.6	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	11.1	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Copper	12.3	0.35	mg/kg	1	06/10/16	EK	SW6010C
Mercury	0.09	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	6.79	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Lead	49.0	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/10/16	EK	SW6010C
Zinc	43.7	0.35	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	94		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	180	53	mg/Kg	1	06/11/16	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/11/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	06/11/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	450	240	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-09

SB-66 (0-2')

Phoenix I.D.: BN51269

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	970	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	830	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	700	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	380	240	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	610	240	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	920	240	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	2300	240	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	470	240	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	1900	240	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	2000	240	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	59		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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

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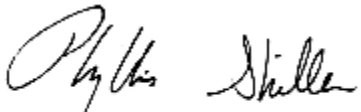

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	15:35
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51270

Project ID: FORMER ANOCOIL SB-66 (7-8')
Client ID: 1251160608-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Arsenic	2.4	0.7	mg/Kg	1	06/10/16	EK	SW6010C
Barium	212	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Chromium	14.7	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Copper	27.3	0.36	mg/kg	1	06/10/16	EK	SW6010C
Mercury	0.16	0.03	mg/Kg	1	06/09/16	RS	SW7471B
Nickel	6.83	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Lead	140	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Selenium	< 1.4	1.4	mg/Kg	1	06/10/16	LK	SW6010C
Zinc	82.5	0.36	mg/Kg	1	06/10/16	EK	SW6010C
Percent Solid	91		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Mercury Digestion	Completed				06/09/16	W/W	SW7471B
Total Metals Digest	Completed				06/09/16	G/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	06/09/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/09/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	86		%	1	06/09/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	360	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	660	250	ug/Kg	1	06/09/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1251160608-10

SB-66 (7-8')

Phoenix I.D.: BN51270

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benz(a)anthracene	1100	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	1000	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	900	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	540	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	770	250	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	1100	250	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	2700	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	340	250	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	630	250	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	2500	250	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	2200	250	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	71		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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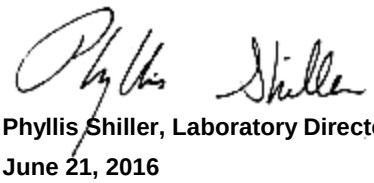

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	15:50
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51271

Project ID: FORMER ANOCOIL
Client ID: 1251160608-11
SB-67 (6.5-7.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Field Extraction	Completed				06/08/16		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	110	54	mg/Kg	1	06/09/16	JRB	CTETPH 8015D
Identification	**		mg/Kg	1	06/09/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	95		%	1	06/09/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,1,1-Trichloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2-Trichloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloropropene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichloropropane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromoethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloropropane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160608-11

SB-67 (6.5-7.5')

Phoenix I.D.: BN51271

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichloropropane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
1,4-Dichlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
2,2-Dichloropropane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
2-Chlorotoluene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	06/09/16	JLI	SW8260
2-Isopropyltoluene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
4-Chlorotoluene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	06/09/16	JLI	SW8260
Acetone	ND	240	ug/Kg	1	06/09/16	JLI	SW8260
Acrylonitrile	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Benzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Bromobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Bromochloromethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Bromodichloromethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Bromoform	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Bromomethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Carbon Disulfide	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Carbon tetrachloride	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Chlorobenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Chloroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Chloroform	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Chloromethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	06/09/16	JLI	SW8260
Dibromomethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Dichlorodifluoromethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Ethylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Hexachlorobutadiene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Isopropylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
m&p-Xylene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	06/09/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.4	ug/Kg	1	06/09/16	JLI	SW8260
Methylene chloride	ND	9.4	ug/Kg	1	06/09/16	JLI	SW8260
Naphthalene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
n-Butylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
n-Propylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
o-Xylene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
p-Isopropyltoluene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
sec-Butylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Styrene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
tert-Butylbenzene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Tetrachloroethene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.4	ug/Kg	1	06/09/16	JLI	SW8260
Toluene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Total Xylenes	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160608-11

SB-67 (6.5-7.5')

Phoenix I.D.: BN51271

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.4	ug/Kg	1	06/09/16	JLI	SW8260
Trichloroethene	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorofluoromethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorotrifluoroethane	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
Vinyl chloride	ND	4.7	ug/Kg	1	06/09/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	06/09/16	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	06/09/16	JLI	70 - 130 %
% Dibromofluoromethane	95		%	1	06/09/16	JLI	70 - 130 %
% Toluene-d8	100		%	1	06/09/16	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	67		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	06/09/16	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160608-11

SB-67 (6.5-7.5')

Phoenix I.D.: BN51271

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

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of 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.
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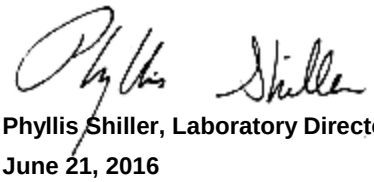

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	16:00
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51272

Project ID: FORMER ANOCOIL
Client ID: 1251160608-12
SB-67 (10-11')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		06/08/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/08/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/08/16	NC/CKV	SW3545A
Field Extraction	Completed				06/08/16		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	55	mg/Kg	1	06/10/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/10/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	06/10/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,1,1-Trichloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.6	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2-Trichloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloropropene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichloropropane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromoethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloropropane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160608-12

SB-67 (10-11')

Phoenix I.D.: BN51272

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichloropropane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
1,4-Dichlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
2,2-Dichloropropane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
2-Chlorotoluene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
2-Hexanone	ND	22	ug/Kg	1	06/09/16	JLI	SW8260
2-Isopropyltoluene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
4-Chlorotoluene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
4-Methyl-2-pentanone	ND	22	ug/Kg	1	06/09/16	JLI	SW8260
Acetone	ND	220	ug/Kg	1	06/09/16	JLI	SW8260
Acrylonitrile	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Benzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Bromobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Bromochloromethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Bromodichloromethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Bromoform	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Bromomethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Carbon Disulfide	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Carbon tetrachloride	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Chlorobenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Chloroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Chloroform	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Chloromethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Dibromochloromethane	ND	2.6	ug/Kg	1	06/09/16	JLI	SW8260
Dibromomethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Dichlorodifluoromethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Ethylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Hexachlorobutadiene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Isopropylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
m&p-Xylene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Methyl Ethyl Ketone	ND	26	ug/Kg	1	06/09/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.7	ug/Kg	1	06/09/16	JLI	SW8260
Methylene chloride	ND	8.7	ug/Kg	1	06/09/16	JLI	SW8260
Naphthalene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
n-Butylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
n-Propylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
o-Xylene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
p-Isopropyltoluene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
sec-Butylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Styrene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
tert-Butylbenzene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Tetrachloroethene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.7	ug/Kg	1	06/09/16	JLI	SW8260
Toluene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Total Xylenes	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL SB-67 (10-11') Phoenix I.D.: BN51272
Client ID: 1251160608-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.7	ug/Kg	1	06/09/16	JLI	SW8260
Trichloroethene	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorofluoromethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorotrifluoroethane	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
Vinyl chloride	ND	4.3	ug/Kg	1	06/09/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/09/16	JLI	70 - 130 %
% Bromofluorobenzene	90		%	1	06/09/16	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	06/09/16	JLI	70 - 130 %
% Toluene-d8	98		%	1	06/09/16	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	06/09/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	60		%	1	06/09/16	DD	30 - 130 %
% Nitrobenzene-d5	54		%	1	06/09/16	DD	30 - 130 %
% Terphenyl-d14	66		%	1	06/09/16	DD	30 - 130 %

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

Comments:

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

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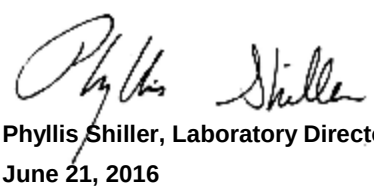

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	16:05
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51273

Project ID: FORMER ANOCOIL
Client ID: 1251160608-13

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/08/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/09/16	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160608-13

Trip Blank - high

Phoenix I.D.: BN51273

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/09/16	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/09/16	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/09/16	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/09/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/09/16	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/09/16	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/09/16	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/09/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	50	06/09/16	JLI	70 - 130 %
% Bromofluorobenzene	98		%	50	06/09/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160608-13

Trip Blank - high

Phoenix I.D.: BN51273

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	50	06/09/16	JLI	70 - 130 %
% Toluene-d8	98		%	50	06/09/16	JLI	70 - 130 %

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

Comments:

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

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.
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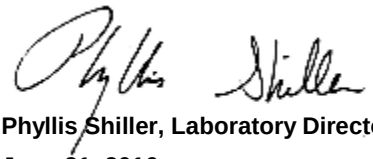

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

Analysis Report

June 21, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/08/16	16:06
Location Code:	F&O	Received by:	B	06/08/16	18:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN51262
Phoenix ID: BN51274

Project ID: FORMER ANOCOIL
Client ID: 1251160608-14

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/08/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/09/16	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160608-14

Trip Blank - low

Phoenix I.D.: BN51274

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/09/16	JLI	SW8260
Acetone	ND	250	ug/Kg	1	06/09/16	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/09/16	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/09/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/09/16	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	06/09/16	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/09/16	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/09/16	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/09/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	06/09/16	JLI	70 - 130 %
% Bromofluorobenzene	98		%	1	06/09/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160608-14

Trip Blank - low

Phoenix I.D.: BN51274

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	06/09/16	JLI	70 - 130 %
% Toluene-d8	99		%	1	06/09/16	JLI	70 - 130 %

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

Comments:

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

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

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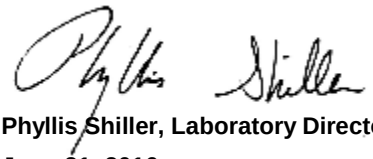

Phyllis Shiller, Laboratory Director
June 21, 2016
Reviewed and Released by: Sarah Bell, Project Manager

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

June 21, 2016

QA/QC Data

SDG I.D.: GBN51262

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 348388 (mg/kg), QC Sample No: BN50903 (BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270)													
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	113	101	11.2	107			70 - 130	30
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 348430 (mg/kg), QC Sample No: BN51185 (BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270)													
ICP Metals - Soil													
Arsenic	BRL	0.66	1.7	2.04	NC	93.5			93.7			75 - 125	30
Barium	BRL	0.33	32.5	32.2	0.90	96.5			100			75 - 125	30
Cadmium	BRL	0.33	<0.36	<0.37	NC	92.6			93.4			75 - 125	30
Chromium	BRL	0.33	8.33	7.45	11.2	95.1			97.0			75 - 125	30
Copper	BRL	0.33	7.96	7.66	3.80	97.0			104			75 - 125	30
Lead	BRL	0.33	8.84	9.38	5.90	91.7			95.5			75 - 125	30
Nickel	BRL	0.33	5.94	5.01	17.0	96.1			95.2			75 - 125	30
Selenium	BRL	1.3	<1.4	<1.5	NC	92.7			93.2			75 - 125	30
Silver	BRL	0.33	<0.36	<0.37	NC	93.7			99.0			75 - 125	30
Zinc	BRL	0.33	37.1	36.4	1.90	96.6			99.5			75 - 125	30

Environmental Laboratories, Inc.
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QA/QC Report

June 21, 2016

QA/QC Data

SDG I.D.: GBN51262

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 348340 (mg/Kg), QC Sample No: BN51262 (BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C.	ND	50	64	60	6.5	55	55	0.0	60 - 120	30	
% n-Pentacosane	80	%	79	76	3.9	63	63	0.0	50 - 150	30	
QA/QC Batch 348333 (ug/kg), QC Sample No: BN51262 (BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	63	65	3.1	50			30 - 130	30	
Acenaphthene	ND	230	64	66	3.1	52			30 - 130	30	
Acenaphthylene	ND	230	62	66	6.3	51			30 - 130	30	
Anthracene	ND	230	66	69	4.4	64			30 - 130	30	
Benz(a)anthracene	ND	230	63	67	6.2	113			30 - 130	30	
Benzo(a)pyrene	ND	230	63	66	4.7	94			30 - 130	30	
Benzo(b)fluoranthene	ND	230	64	71	10.4	109			30 - 130	30	
Benzo(ghi)perylene	ND	230	66	70	5.9	71			30 - 130	30	
Benzo(k)fluoranthene	ND	230	67	67	0.0	71			30 - 130	30	
Chrysene	ND	230	68	72	5.7	107			30 - 130	30	
Dibenz(a,h)anthracene	ND	230	64	68	6.1	56			30 - 130	30	
Fluoranthene	ND	230	66	68	3.0	>200			30 - 130	30	m
Fluorene	ND	230	64	68	6.1	52			30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	65	69	6.0	74			30 - 130	30	
Naphthalene	ND	230	63	65	3.1	52			30 - 130	30	
Phenanthrene	ND	230	65	68	4.5	126			30 - 130	30	
Pyrene	ND	230	70	72	2.8	>200			30 - 130	30	m
% 2-Fluorobiphenyl	58	%	62	62	0.0	45			30 - 130	30	
% Nitrobenzene-d5	54	%	58	59	1.7	44			30 - 130	30	
% Terphenyl-d14	65	%	69	69	0.0	46			30 - 130	30	

Comment:

MSD not reported from this batch.

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 348633 (ug/kg), QC Sample No: BN51271 (BN51271, BN51272, BN51273 (50X) , BN51274)											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	113	113	0.0				70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	107	107	0.0				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	122	116	5.0				70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	110	112	1.8				70 - 130	30	
1,1-Dichloroethane	ND	5.0	107	105	1.9				70 - 130	30	
1,1-Dichloroethene	ND	5.0	105	104	1.0				70 - 130	30	
1,1-Dichloropropene	ND	5.0	114	118	3.4				70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	129	126	2.4				70 - 130	30	

QA/QC Data

SDG I.D.: GBN51262

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichloropropane	ND	5.0	119	114	4.3				70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	136	130	4.5				70 - 130	30	I
1,2,4-Trimethylbenzene	ND	1.0	120	121	0.8				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	123	120	2.5				70 - 130	30	
1,2-Dibromoethane	ND	5.0	119	117	1.7				70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	117	112	4.4				70 - 130	30	
1,2-Dichloroethane	ND	5.0	108	116	7.1				70 - 130	30	
1,2-Dichloropropane	ND	5.0	107	112	4.6				70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	117	115	1.7				70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	119	117	1.7				70 - 130	30	
1,3-Dichloropropane	ND	5.0	116	112	3.5				70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	118	115	2.6				70 - 130	30	
2,2-Dichloropropane	ND	5.0	109	110	0.9				70 - 130	30	
2-Chlorotoluene	ND	5.0	120	116	3.4				70 - 130	30	
2-Hexanone	ND	25	130	120	8.0				70 - 130	30	
2-Isopropyltoluene	ND	5.0	126	121	4.0				70 - 130	30	
4-Chlorotoluene	ND	5.0	115	115	0.0				70 - 130	30	
4-Methyl-2-pentanone	ND	25	125	121	3.3				70 - 130	30	
Acetone	ND	10	99	89	10.6				70 - 130	30	
Acrylonitrile	ND	5.0	120	113	6.0				70 - 130	30	
Benzene	ND	1.0	109	115	5.4				70 - 130	30	
Bromobenzene	ND	5.0	118	117	0.9				70 - 130	30	
Bromochloromethane	ND	5.0	113	113	0.0				70 - 130	30	
Bromodichloromethane	ND	5.0	113	119	5.2				70 - 130	30	
Bromoform	ND	5.0	123	124	0.8				70 - 130	30	
Bromomethane	ND	5.0	115	111	3.5				70 - 130	30	
Carbon Disulfide	ND	5.0	111	110	0.9				70 - 130	30	
Carbon tetrachloride	ND	5.0	108	107	0.9				70 - 130	30	
Chlorobenzene	ND	5.0	112	112	0.0				70 - 130	30	
Chloroethane	ND	5.0	116	114	1.7				70 - 130	30	
Chloroform	ND	5.0	108	107	0.9				70 - 130	30	
Chloromethane	ND	5.0	109	106	2.8				70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	102	108	5.7				70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	114	117	2.6				70 - 130	30	
Dibromochloromethane	ND	3.0	117	117	0.0				70 - 130	30	
Dibromomethane	ND	5.0	108	115	6.3				70 - 130	30	
Dichlorodifluoromethane	ND	5.0	97	94	3.1				70 - 130	30	
Ethylbenzene	ND	1.0	115	113	1.8				70 - 130	30	
Hexachlorobutadiene	ND	5.0	127	127	0.0				70 - 130	30	
Isopropylbenzene	ND	1.0	123	120	2.5				70 - 130	30	
m&p-Xylene	ND	2.0	118	115	2.6				70 - 130	30	
Methyl ethyl ketone	ND	5.0	124	113	9.3				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	108	105	2.8				70 - 130	30	
Methylene chloride	ND	5.0	97	95	2.1				70 - 130	30	
Naphthalene	ND	5.0	136	132	3.0				70 - 130	30	I
n-Butylbenzene	ND	1.0	125	122	2.4				70 - 130	30	
n-Propylbenzene	ND	1.0	115	112	2.6				70 - 130	30	
o-Xylene	ND	2.0	119	118	0.8				70 - 130	30	
p-Isopropyltoluene	ND	1.0	125	124	0.8				70 - 130	30	
sec-Butylbenzene	ND	1.0	121	120	0.8				70 - 130	30	
Styrene	ND	5.0	121	120	0.8				70 - 130	30	
tert-Butylbenzene	ND	1.0	117	115	1.7				70 - 130	30	
Tetrachloroethene	ND	5.0	116	119	2.6				70 - 130	30	

QA/QC Data

SDG I.D.: GBN51262

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrahydrofuran (THF)	ND	5.0	119	109	8.8				70 - 130	30	
Toluene	ND	1.0	109	113	3.6				70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	106	104	1.9				70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	116	119	2.6				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	135	128	5.3				70 - 130	30	l
Trichloroethene	ND	5.0	109	118	7.9				70 - 130	30	
Trichlorofluoromethane	ND	5.0	109	109	0.0				70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	114	115	0.9				70 - 130	30	
Vinyl chloride	ND	5.0	105	102	2.9				70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	99	98	1.0				70 - 130	30	
% Bromofluorobenzene	96	%	100	98	2.0				70 - 130	30	
% Dibromofluoromethane	97	%	97	100	3.0				70 - 130	30	
% Toluene-d8	97	%	93	100	7.3				70 - 130	30	

Comment:

The MS/MSD are not reported for this batch.

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

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
June 21, 2016

Sample Criteria Exceedences Report

GBN51262 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN51262	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2100	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2500	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2200	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2500	250	1000	1000	ug/Kg
BN51262	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2200	250	1000	1000	ug/Kg
BN51266	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	10.1	0.7	10	10	mg/Kg
BN51270	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	250	1000	1000	ug/Kg
BN51270	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	250	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:** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL **Project Number:**

Laboratory Sample ID(s): BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272, BN51273, BN51274

Sampling Date(s): 6/8/2016

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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Tuesday, June 21, 2016

Printed Name: Ethan Lee

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

NY # 11301

RCP Certification Report

June 21, 2016

SDG I.D.: GBN51262

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

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

ETPH Narration

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

Instrument:

AU-FID1 06/09/16-1 Jeff Bucko, Chemist 06/09/16

BN51262

The initial calibration (ETPH526I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BN51262
Preceding CC 609A007 - None.
Succeeding CC 609A019 - Pentacosane 41%H (30%)

AU-FID1 06/10/16-2 Jeff Bucko, Chemist 06/10/16

BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269

The initial calibration (ETPH610I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269
Preceding CC 610A030 - Pentacosane 46%H (30%)
Succeeding CC 610A042 - None.

AUFID-D1 06/09/16-2 Jeff Bucko, Chemist 06/09/16

BN51270, BN51271, BN51272

The initial calibration (ETPH607I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36 97.7%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 348340 (BN51262)

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272

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 analytical method achieved? Yes.

Instrument:

MERLIN 06/09/16 08:43 Rick Schweitzer, Chemist 06/09/16

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

NY # 11301

Certification Report

June 21, 2016

SDG I.D.: GBN51262

Mercury Narration

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 348388 (BN50903)

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270

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

ICP Metals Narration

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

Instrument:

ARCOS 06/10/16 04:02 Emily Kolominskaya, Laura Kinnin, Chemist 06/10/16

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270

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

QC (Batch Specific):

Batch 348430 (BN51185)

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270

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

SVOA Narration

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

Instrument:

CHEM12 06/08/16-1 Damien Drobinski, Chemist 06/08/16

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272

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_0524):

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

NY # 11301

RCP Certification Report

June 21, 2016

SDG I.D.: GBN51262

SVOA Narration

99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM12/0608_04-SV_0524):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 348333 (BN51262)

BN51262, BN51263, BN51264, BN51265, BN51266, BN51267, BN51268, BN51269, BN51270, BN51271, BN51272

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.
MSD not reported from this batch.

VOA Narration

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

QC Batch 348633 (Samples: BN51271, BN51272, BN51273, BN51274): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,2,4-Trichlorobenzene, Naphthalene, trans-1,4-dichloro-2-butene)

Instrument:

CHEM03 06/09/16-1 Jane Li, Chemist 06/09/16

BN51271, BN51272, BN51273, BN51274

Initial Calibration Verification (CHEM03/VT-L0608):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 35% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM03/0609L02-VT-L0608):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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

NY # 11301

RCP Certification Report

June 21, 2016

SDG I.D.: GBN51262

VOA Narration

QC (Batch Specific):

Batch 348633 (BN51271)

BN51271, BN51272, BN51273, BN51274

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,4-Trichlorobenzene(136%), Naphthalene(136%), trans-1,4-dichloro-2-butene(135%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Naphthalene(132%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
The MS/MSD are not reported for this batch.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

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

6 coolers 1lb

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

CHAIN-OF-CUSTODY RECORD 35333

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	20011454.P60	Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO:
P.O. NO.:
Sampler's Signature: [signature] Date: 6-8-16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	CT ETPH (8270)	PAHs	RCRA 8 Metals + Cu, Ni, Zn	VOCs (8260)	Soil VOA Vial, ☒ methanol	Soil VOA Vial ☒ water	Glass Soil Container (8 oz Other: Glass jar (4 oz)	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01		125116D608-01	S	6-8-16	0930	X	X	X				1								51262
02		-03			1250															51263
03		-04			1310															51264
04		-05			1420															51265
05		-06			1430															51266
06		-07			1505															51267
07		-08			1515															51268
08		-09			1525															51269
09		-10			1535															51270
10		-11			1550	X	X		X			1	2		1					51271

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	6/8/16	18:20
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC / RES DEC
Additional Comments:

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

Lisle

CHAIN-OF-CUSTODY RECORD 35334

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anoco #1	Rockville, CT	20014S4.P60	Phoenix

REPORT TO: Kevin Vandervoer (F+O)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: _____ Date: 6-8-16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: CT ETPH	PAHs (8270)	VOCs (8260)	Containers: Soil VOA Vial, X methanol	Soil VOA Vial, X water	Glass Soil Container (4) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is	Plastic - As is, ☐ 250 ml	Plastic - H_2SO_4, ☐ 250 ml	Plastic - HNO_3, 250 ml	Plastic - NaOH, 250 ml	☐ H_2SO_4 ☐ 1000 ml ☐ 500 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
11					1251160608-12	S	6-8-16	1600	X	X	X	1	2	1										51272
12					-13	X	↓	1605			X	1							51273					TB-high
13					-14	X	↓	1606			X		2						51274					TB-low

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	6/8/16	18:20
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
_____ Duplicates 2 Blanks (Item Nos: [redacted], 11, 12
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC / RESDEC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 16, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN52168 - BN52171, BN52173 - BN52175, BN52177 - BN52180

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

REVIEWED
By pbibeau at 1:53 pm, Jun 22, 2016
DMS

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	9:05
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52168

Project ID: FORMER ANOCOIL
Client ID: 1251160609-15

MW-15 (10.75-11.25')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	68		%		06/09/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/09/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/09/16	NJ/CKV	SW3545A
Field Extraction	Completed				06/09/16		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	31000	3600	mg/Kg	50	06/15/16	JRB	CTETPH 8015D
Identification	**		mg/Kg	50	06/15/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	50	06/15/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	320	ug/Kg	50	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-15

MW-15 (10.75-11.25')

Phoenix I.D.: BN52168

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
2-Hexanone	ND	2700	ug/Kg	50	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
4-Chlorotoluene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
4-Methyl-2-pentanone	ND	2700	ug/Kg	50	06/10/16	JLI	SW8260
Acetone	ND	27000	ug/Kg	50	06/10/16	JLI	SW8260
Acrylonitrile	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Benzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Bromobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Bromochloromethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Bromodichloromethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Bromoform	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Bromomethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Carbon Disulfide	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Chlorobenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Chloroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Chloroform	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Chloromethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Dibromochloromethane	ND	320	ug/Kg	50	06/10/16	JLI	SW8260
Dibromomethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Ethylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Isopropylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
m&p-Xylene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	3200	ug/Kg	50	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	1100	ug/Kg	50	06/10/16	JLI	SW8260
Methylene chloride	ND	1100	ug/Kg	50	06/10/16	JLI	SW8260
Naphthalene	3500	540	ug/Kg	50	06/10/16	JLI	SW8260
n-Butylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
n-Propylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
o-Xylene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Styrene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Tetrachloroethene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	1100	ug/Kg	50	06/10/16	JLI	SW8260
Toluene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Total Xylenes	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1100	ug/Kg	50	06/10/16	JLI	SW8260
Trichloroethene	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
Vinyl chloride	ND	540	ug/Kg	50	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	50	06/10/16	JLI	70 - 130 %
% Bromofluorobenzene	101		%	50	06/10/16	JLI	70 - 130 %
% Dibromofluoromethane	100		%	50	06/10/16	JLI	70 - 130 %
% Toluene-d8	87		%	50	06/10/16	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	22000	1700	ug/Kg	5	06/10/16	DD	SW8270D
Acenaphthene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Acenaphthylene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Anthracene	4100	1700	ug/Kg	5	06/10/16	DD	SW8270D
Benz(a)anthracene	2500	1700	ug/Kg	5	06/10/16	DD	SW8270D
Benzo(a)pyrene	1900	1700	ug/Kg	5	06/10/16	DD	SW8270D
Benzo(b)fluoranthene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Benzo(ghi)perylene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Benzo(k)fluoranthene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Chrysene	3300	1700	ug/Kg	5	06/10/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Fluoranthene	3000	1700	ug/Kg	5	06/10/16	DD	SW8270D
Fluorene	3400	1700	ug/Kg	5	06/10/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	1700	ug/Kg	5	06/10/16	DD	SW8270D
Naphthalene	5000	1700	ug/Kg	5	06/10/16	DD	SW8270D
Phenanthrene	16000	1700	ug/Kg	5	06/10/16	DD	SW8270D
Pyrene	25000	1700	ug/Kg	5	06/10/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	5	06/10/16	DD	30 - 130 %
% Nitrobenzene-d5	65		%	5	06/10/16	DD	30 - 130 %
% Terphenyl-d14	68		%	5	06/10/16	DD	30 - 130 %

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

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

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Volatile Comment:
Poor IS recoveries were observed for low level volatiles due to dirt in the threads of the vial preventing the sample from purging. Both low level vials had this problem, results are reported from the methanol high level.

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, 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

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	9:15
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52169

Project ID: FORMER ANOCOIL
Client ID: 1251160609-16

MW-15 (15.25-16.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		06/09/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				06/09/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				06/09/16	NJ/CKV	SW3545A
Field Extraction	Completed				06/09/16		SW5035A
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	06/14/16	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	06/14/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	06/14/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-16

MW-15 (15.25-16.5')

Phoenix I.D.: BN52169

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3,5-Trimethylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
2-Hexanone	ND	21	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
4-Chlorotoluene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
4-Methyl-2-pentanone	ND	21	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	210	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromochloromethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	2.5	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Isopropylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
m&p-Xylene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	25	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	8.4	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	8.4	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
n-Butylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
n-Propylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
o-Xylene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Styrene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Tetrachloroethene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	8.4	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
trans-1,3-Dichloropropene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	8.4	ug/Kg	1	06/10/16	JLI	SW8260
Trichloroethene	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	4.2	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	84		%	1	06/10/16	JLI	70 - 130 %
% Bromofluorobenzene	97		%	1	06/10/16	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	87		%	1	06/10/16	JLI	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	06/11/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	06/11/16	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	06/11/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	06/11/16	DD	30 - 130 %

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

Comments:

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

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

June 16, 2016

Reviewed and Released by: Ethan Lee, 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

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	10:16
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52170

Project ID: FORMER ANOCOIL
Client ID: 1251160609-17 SB-69 (0.2-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
2-Hexanone	ND	27	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-17

SB-69 (0.2-1')

Phoenix I.D.: BN52170

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
4-Methyl-2-pentanone	ND	27	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	270	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Bromochloromethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Isopropylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
m&p-Xylene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	33	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	11	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	11	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
n-Butylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
n-Propylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
o-Xylene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Styrene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Tetrachloroethene	550	320	ug/Kg	50	06/12/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	11	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	11	ug/Kg	1	06/10/16	JLI	SW8260
Trichloroethene	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	5.5	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	1	06/10/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-17

SB-69 (0.2-1')

Phoenix I.D.: BN52170

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	83		%	1	06/10/16	JLI	70 - 130 %
% Dibromofluoromethane	106		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	86		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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.
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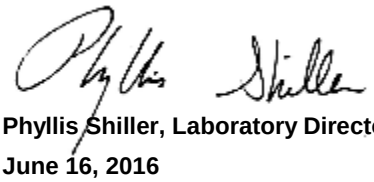

Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	10:17
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52171

Project ID: FORMER ANOCOIL
Client ID: 1251160609-18

SB-69 (1.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
2-Hexanone	ND	31	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	310	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromochloromethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Isopropylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
m&p-Xylene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	12	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
o-Xylene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Styrene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	06/10/16	JLI	SW8260
Trichloroethene	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	6.2	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	06/10/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-18 SB-69 (1.5-2')

Phoenix I.D.: BN52171

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	97		%	1	06/10/16	JLI	70 - 130 %
% Dibromofluoromethane	104		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	86		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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.
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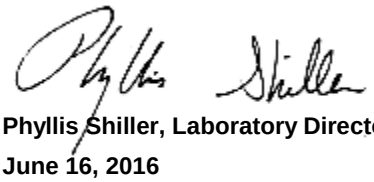

Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	10:30
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52173

Project ID: FORMER ANOCOIL
Client ID: 1251160609-20

SB-70 (0.2-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2,3-Trichloropropane	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dibromoethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dichloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichlorobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichloropropane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
2,2-Dichloropropane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
2-Hexanone	ND	15	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-20

SB-70 (0.2-2')

Phoenix I.D.: BN52173

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
4-Methyl-2-pentanone	ND	15	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	150	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
Bromochloromethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	1.8	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
Isopropylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
m&p-Xylene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	18	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	6.1	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	6.1	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
n-Butylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
n-Propylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
o-Xylene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
sec-Butylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
Styrene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	220	ug/Kg	50	06/12/16	JLI	SW8260
Tetrachloroethene	580	220	ug/Kg	50	06/12/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	6.1	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	440	ug/Kg	50	06/12/16	JLI	SW8260
Trichloroethene	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	3.1	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	50	06/12/16	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	103		%	50	06/12/16	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	84		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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

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

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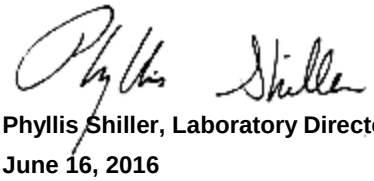

Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	10:35
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52174

Project ID: FORMER ANOCOIL
Client ID: 1251160609-21

SB-70 (0.2-2') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	1.7	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dibromoethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dichloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichloropropane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
2,2-Dichloropropane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
2-Hexanone	ND	14	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260

SB-70 (0.2-2') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
4-Methyl-2-pentanone	ND	14	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	140	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
Bromochloromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	1.7	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
m&p-Xylene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	17	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.7	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	5.7	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
o-Xylene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
Styrene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/12/16	JLI	SW8260
Tetrachloroethene	480	250	ug/Kg	50	06/12/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	5.7	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	510	ug/Kg	50	06/12/16	JLI	SW8260
Trichloroethene	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	50	06/12/16	JLI	70 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	104		%	50	06/12/16	JLI	70 - 130 %
% Dibromofluoromethane	108		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	81		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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

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

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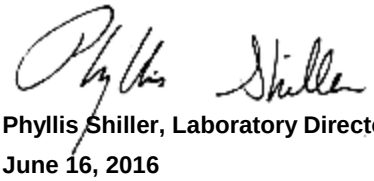

Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	10:40
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52175

Project ID: FORMER ANOCOIL
Client ID: 1251160609-22

SB-70 (3-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	93		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
2-Hexanone	ND	24	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-22

SB-70 (3-4')

Phoenix I.D.: BN52175

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
4-Methyl-2-pentanone	ND	24	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	240	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Bromochloromethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Isopropylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
m&p-Xylene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	29	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.7	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	9.7	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
n-Butylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
n-Propylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
o-Xylene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Styrene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Tetrachloroethene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.7	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.7	ug/Kg	1	06/10/16	JLI	SW8260
Trichloroethene	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	4.8	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	06/10/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-22

SB-70 (3-4')

Phoenix I.D.: BN52175

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	99		%	1	06/10/16	JLI	70 - 130 %
% Dibromofluoromethane	102		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	87		%	1	06/10/16	JLI	70 - 130 %
Client MS/MSD	Completed				06/10/16		

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

Comments:

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

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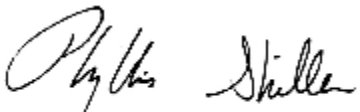

Phyllis Shiller, Laboratory Director

June 16, 2016

Reviewed and Released by: Ethan Lee, 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

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	11:15
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52177

Project ID: FORMER ANOCOIL
Client ID: 1251160609-24 SB-71 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	74		%		06/09/16	W	SW846-%Solid
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.8	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,2,3-Trichloropropane	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	7.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,2-Dichloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichlorobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
1,3-Dichloropropane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
2,2-Dichloropropane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
2-Hexanone	ND	48	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-24

SB-71 (0-0.5')

Phoenix I.D.: BN52177

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
4-Methyl-2-pentanone	ND	48	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	480	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
Bromochloromethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	5.8	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
Isopropylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
m&p-Xylene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	58	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	19	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	19	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
n-Butylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
n-Propylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
o-Xylene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
sec-Butylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
Styrene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	470	ug/Kg	50	06/12/16	JLI	SW8260
Tetrachloroethene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	19	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	950	ug/Kg	50	06/12/16	JLI	SW8260
Trichloroethene	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	9.6	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	93		%	50	06/12/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-24

SB-71 (0-0.5')

Phoenix I.D.: BN52177

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	103		%	50	06/12/16	JLI	70 - 130 %
% Dibromofluoromethane	107		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	86		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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

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

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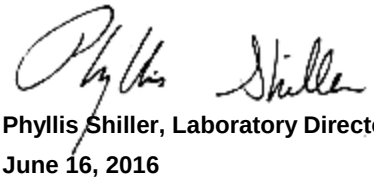

Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	14:20
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52178

Project ID: FORMER ANOCOIL
Client ID: 1251160609-25

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-25

Trip Blank - low

Phoenix I.D.: BN52178

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/10/16	JLI	SW8260
Acetone	ND	250	ug/Kg	1	06/10/16	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/10/16	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/10/16	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	06/10/16	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/10/16	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/10/16	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	94		%	1	06/10/16	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	06/10/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-25

Trip Blank - low

Phoenix I.D.: BN52178

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	1	06/10/16	JLI	70 - 130 %
% Toluene-d8	87		%	1	06/10/16	JLI	70 - 130 %

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

Comments:

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

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.
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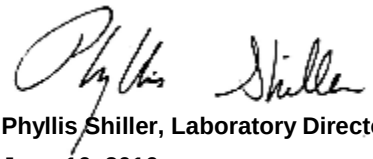


Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/09/16	14:25
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52179

Project ID: FORMER ANOCOIL
Client ID: 1251160609-26

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/09/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/10/16	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-26

Trip Blank - high

Phoenix I.D.: BN52179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/10/16	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/10/16	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/10/16	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/10/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/10/16	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/10/16	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/10/16	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/10/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	50	06/10/16	JLI	70 - 130 %
% Bromofluorobenzene	100		%	50	06/10/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-26

Trip Blank - high

Phoenix I.D.: BN52179

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	97		%	50	06/10/16	JLI	70 - 130 %
% Toluene-d8	87		%	50	06/10/16	JLI	70 - 130 %

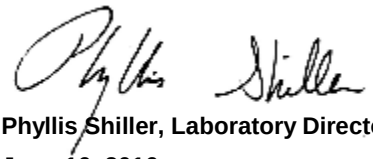
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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
June 16, 2016
Reviewed and Released by: Ethan Lee, 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

June 16, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/09/16	15:00
Location Code:	F&O	Received by:	B	06/09/16	17:27
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN52168
Phoenix ID: BN52180

Project ID: FORMER ANOCOIL Equipment Blank
Client ID: 1251160609-27

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.001	0.001	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Arsenic	< 0.004	0.004	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Barium	< 0.002	0.002	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Cadmium	< 0.001	0.001	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Chromium	< 0.001	0.001	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Copper	< 0.005	0.005	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Mercury	< 0.002	0.002	mg/L	1	06/13/16	RS	SW7470/245.1	
Nickel	< 0.001	0.001	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Lead	< 0.002	0.002	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Selenium	< 0.010	0.010	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Zinc	< 0.002	0.002	mg/L	1	06/10/16	EK	SW6010C/E200.7	
Extraction of CT ETPH	Completed				06/10/16	P/UU	SW3510C/SW3520C	
Mercury Digestion	Completed				06/13/16	W/W	SW7470/245.1	
Semi-Volatile Extraction	Completed				06/09/16	P/UU	SW3520C	
Total Metals Digestion	Completed				06/09/16	AG		
TPH by GC (Extractable Products)								
Ext. Petroleum HC	ND	0.070	mg/L	1	06/13/16	JRB	CTETPH 8015D	
Identification	ND		mg/L	1	06/13/16	JRB	CTETPH 8015D	
QA/QC Surrogates								
% n-Pentacosane	49		%	1	06/13/16	JRB	50 - 150 %	3
Volatiles								
1,1,1,2-Tetrachloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260	
1,1,1-Trichloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260	
1,1,2-Trichloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260	
1,1-Dichloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260	

Project ID: FORMER ANOCOIL
Client ID: 1251160609-27

Equipment Blank

Phoenix I.D.: BN52180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,1-Dichloropropene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2-Dibromoethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2-Dichloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,2-Dichloropropane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,3-Dichloropropane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
2,2-Dichloropropane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
2-Chlorotoluene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
2-Hexanone	ND	25	ug/L	1	06/09/16	HM	SW8260
2-Isopropyltoluene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
4-Chlorotoluene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
4-Methyl-2-pentanone	ND	25	ug/L	1	06/09/16	HM	SW8260
Acetone	ND	50	ug/L	1	06/09/16	HM	SW8260
Acrylonitrile	ND	10	ug/L	1	06/09/16	HM	SW8260
Benzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Bromobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Bromochloromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Bromodichloromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Bromoform	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Bromomethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Carbon tetrachloride	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Chlorobenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Chloroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Chloroform	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Chloromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Dibromochloromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Dibromomethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Dichlorodifluoromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Ethylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Hexachlorobutadiene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Isopropylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
m&p-Xylene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Methyl Ethyl Ketone	ND	60	ug/L	1	06/09/16	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/L	1	06/09/16	HM	SW8260
Methylene chloride	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
n-Butylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160609-27

Equipment Blank

Phoenix I.D.: BN52180

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Propylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
o-Xylene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
p-Isopropyltoluene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
sec-Butylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Styrene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
tert-Butylbenzene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Tetrachloroethene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Tetrahydrofuran (THF)	ND	10	ug/L	1	06/09/16	HM	SW8260
Toluene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Total Xylenes	ND	5.0	ug/L	1	06/09/16	HM	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/L	1	06/09/16	HM	SW8260
Trichloroethene	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Trichlorofluoromethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/L	1	06/09/16	HM	SW8260
Vinyl chloride	ND	5.0	ug/L	1	06/09/16	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/09/16	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	06/09/16	HM	70 - 130 %
% Dibromofluoromethane	95		%	1	06/09/16	HM	70 - 130 %
% Toluene-d8	100		%	1	06/09/16	HM	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/13/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/13/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	06/13/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	06/13/16	DD	30 - 130 %
% Nitrobenzene-d5	29		%	1	06/13/16	DD	30 - 130 % 3
% Terphenyl-d14	93		%	1	06/13/16	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160609-27

Equipment Blank

Phoenix I.D.: BN52180

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

3 = This parameter exceeds laboratory specified limits.

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

Comments:

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

TPH Comment:
Low surrogate reported. Insufficient sample for re-extraction.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
June 16, 2016
Reviewed and Released by: Ethan Lee, 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

June 16, 2016

QA/QC Data

SDG I.D.: GBN52168

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 348514 (mg/L), QC Sample No: BN52043 (BN52180)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	95.1			97.2			75 - 125	20
Barium	BRL	0.002	0.233	0.226	3.10	99.7			99.4			75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	94.7			94.0			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	98.3			98.6			75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	99.2			102			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	95.9			97.2			75 - 125	20
Nickel	BRL	0.001	<0.001	<0.001	NC	96.5			96.4			75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	93.3			95.7			75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	97.1			99.7			75 - 125	20
Zinc	BRL	0.002	<0.002	<0.002	NC	95.6			96.8			75 - 125	20
QA/QC Batch 348763 (mg/L), QC Sample No: BN52180 (BN52180)													
Mercury - Water	BRL	0.0002	<0.002	<0.0002	NC	89.9			89.4			70 - 130	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

Environmental Laboratories, Inc.
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QA/QC Report

June 16, 2016

QA/QC Data

SDG I.D.: GBN52168

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 348508 (ug/L), QC Sample No: BN51782 (BN52180)											
Semivolatiles by SIM - Water											
2-Methylnaphthalene	ND	0.05	60						30 - 130	20	
Acenaphthene	ND	0.05	67						30 - 130	20	
Acenaphthylene	ND	0.04	59						30 - 130	20	
Anthracene	ND	0.02	74						30 - 130	20	
Benz(a)anthracene	ND	0.02	78						30 - 130	20	
Benzo(a)pyrene	ND	0.02	71						30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	76						30 - 130	20	
Benzo(ghi)perylene	ND	0.02	72						30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	78						30 - 130	20	
Chrysene	ND	0.02	82						30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	81						30 - 130	20	
Fluoranthene	ND	0.04	76						30 - 130	20	
Fluorene	ND	0.05	69						30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	75						30 - 130	20	
Naphthalene	ND	0.05	51						30 - 130	20	
Phenanthrene	ND	0.05	69						30 - 130	20	
Pyrene	ND	0.02	78						30 - 130	20	
% 2-Fluorobiphenyl	48	%	58						30 - 130	20	
% Nitrobenzene-d5	39	%	52						30 - 130	20	
% Terphenyl-d14	83	%	83						30 - 130	20	
Comment:											
An LCS is performed instead of LCS Duplicate, matrix spike and matrix spike duplicate.											
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 348716 (mg/L), QC Sample No: BN51982 (BN52180)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C.	ND	0.070	66	45	37.8				60 - 120	30	l,r
% n-Pentacosane	48	%	76	70	8.2				50 - 150	20	
Comment:											
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.											
QA/QC Batch 348488 (mg/Kg), QC Sample No: BN52000 (BN52168, BN52169)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C.	ND	50	60	71	16.8				60 - 120	30	
% n-Pentacosane	77	%	66	77	15.4				50 - 150	30	
QA/QC Batch 348484 (ug/kg), QC Sample No: BN52002 (BN52168, BN52169)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	73	72	1.4				30 - 130	30	
Acenaphthene	ND	230	77	74	4.0				30 - 130	30	
Acenaphthylene	ND	230	77	74	4.0				30 - 130	30	

QA/QC Data

SDG I.D.: GBN52168

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Anthracene	ND	230	81	76	6.4				30 - 130	30
Benz(a)anthracene	ND	230	79	75	5.2				30 - 130	30
Benzo(a)pyrene	ND	230	76	72	5.4				30 - 130	30
Benzo(b)fluoranthene	ND	230	81	75	7.7				30 - 130	30
Benzo(ghi)perylene	ND	230	72	71	1.4				30 - 130	30
Benzo(k)fluoranthene	ND	230	80	78	2.5				30 - 130	30
Chrysene	ND	230	84	80	4.9				30 - 130	30
Dibenz(a,h)anthracene	ND	230	74	70	5.6				30 - 130	30
Fluoranthene	ND	230	82	81	1.2				30 - 130	30
Fluorene	ND	230	80	76	5.1				30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	71	70	1.4				30 - 130	30
Naphthalene	ND	230	69	68	1.5				30 - 130	30
Phenanthrene	ND	230	81	76	6.4				30 - 130	30
Pyrene	ND	230	84	83	1.2				30 - 130	30
% 2-Fluorobiphenyl	66	%	71	68	4.3				30 - 130	30
% Nitrobenzene-d5	68	%	72	67	7.2				30 - 130	30
% Terphenyl-d14	84	%	83	81	2.4				30 - 130	30
QA/QC Batch 348557 (ug/L), QC Sample No: BN52017 (BN52180)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	5.0	97	99	2.0				70 - 130	30
1,1,1-Trichloroethane	ND	5.0	94	94	0.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	5.0	97	99	2.0				70 - 130	30
1,1,2-Trichloroethane	ND	5.0	92	92	0.0				70 - 130	30
1,1-Dichloroethane	ND	5.0	94	96	2.1				70 - 130	30
1,1-Dichloroethene	ND	5.0	90	93	3.3				70 - 130	30
1,1-Dichloropropene	ND	5.0	93	97	4.2				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	114	97	16.1				70 - 130	30
1,2,3-Trichloropropane	ND	5.0	96	96	0.0				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	108	98	9.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	98	1.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	105	99	5.9				70 - 130	30
1,2-Dibromoethane	ND	5.0	97	96	1.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	94	96	2.1				70 - 130	30
1,2-Dichloroethane	ND	0.60	93	94	1.1				70 - 130	30
1,2-Dichloropropane	ND	5.0	89	92	3.3				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	96	97	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	95	98	3.1				70 - 130	30
1,3-Dichloropropane	ND	5.0	95	95	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	95	96	1.0				70 - 130	30
2,2-Dichloropropane	ND	5.0	86	90	4.5				70 - 130	30
2-Chlorotoluene	ND	5.0	96	98	2.1				70 - 130	30
2-Hexanone	ND	5.0	95	90	5.4				70 - 130	30
2-Isopropyltoluene	ND	5.0	100	101	1.0				70 - 130	30
4-Chlorotoluene	ND	5.0	92	96	4.3				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	93	92	1.1				70 - 130	30
Acetone	ND	10	93	90	3.3				70 - 130	30
Acrylonitrile	ND	5.0	99	98	1.0				70 - 130	30
Benzene	ND	0.70	92	94	2.2				70 - 130	30
Bromobenzene	ND	5.0	95	98	3.1				70 - 130	30
Bromochloromethane	ND	5.0	94	98	4.2				70 - 130	30
Bromodichloromethane	ND	5.0	95	96	1.0				70 - 130	30
Bromoform	ND	5.0	103	101	2.0				70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Bromomethane	ND	5.0	115	146	23.8				70 - 130	30
Carbon Disulfide	ND	5.0	92	94	2.2				70 - 130	30
Carbon tetrachloride	ND	5.0	95	98	3.1				70 - 130	30
Chlorobenzene	ND	1.0	93	94	1.1				70 - 130	30
Chloroethane	ND	5.0	103	107	3.8				70 - 130	30
Chloroform	ND	5.0	89	94	5.5				70 - 130	30
Chloromethane	ND	5.0	104	102	1.9				70 - 130	30
cis-1,2-Dichloroethene	ND	5.0	87	93	6.7				70 - 130	30
cis-1,3-Dichloropropene	ND	5.0	91	93	2.2				70 - 130	30
Dibromochloromethane	ND	5.0	99	101	2.0				70 - 130	30
Dibromomethane	ND	5.0	93	95	2.1				70 - 130	30
Dichlorodifluoromethane	ND	5.0	110	112	1.8				70 - 130	30
Ethylbenzene	ND	1.0	96	96	0.0				70 - 130	30
Hexachlorobutadiene	ND	5.0	109	94	14.8				70 - 130	30
Isopropylbenzene	ND	1.0	97	97	0.0				70 - 130	30
m&p-Xylene	ND	1.0	95	96	1.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	97	93	4.2				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	97	97	0.0				70 - 130	30
Methylene chloride	ND	5.0	90	92	2.2				70 - 130	30
Naphthalene	ND	1.0	121	102	17.0				70 - 130	30
n-Butylbenzene	ND	1.0	101	99	2.0				70 - 130	30
n-Propylbenzene	ND	1.0	94	96	2.1				70 - 130	30
o-Xylene	ND	1.0	93	94	1.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	102	102	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	101	101	0.0				70 - 130	30
Styrene	ND	1.0	97	98	1.0				70 - 130	30
tert-Butylbenzene	ND	1.0	96	96	0.0				70 - 130	30
Tetrachloroethene	ND	1.0	97	97	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	5.0	95	94	1.1				70 - 130	30
Toluene	ND	1.0	93	95	2.1				70 - 130	30
trans-1,2-Dichloroethene	ND	5.0	93	94	1.1				70 - 130	30
trans-1,3-Dichloropropene	ND	5.0	93	94	1.1				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	106	107	0.9				70 - 130	30
Trichloroethene	ND	5.0	94	94	0.0				70 - 130	30
Trichlorofluoromethane	ND	5.0	94	96	2.1				70 - 130	30
Trichlorotrifluoroethane	ND	5.0	103	103	0.0				70 - 130	30
Vinyl chloride	ND	5.0	95	98	3.1				70 - 130	30
% 1,2-dichlorobenzene-d4	100	%	100	100	0.0				70 - 130	30
% Bromofluorobenzene	98	%	97	99	2.0				70 - 130	30
% Dibromofluoromethane	96	%	99	101	2.0				70 - 130	30
% Toluene-d8	101	%	99	98	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

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

QA/QC Batch 348856 (ug/kg), QC Sample No: BN52175 (BN52168 (50X) , BN52169, BN52170, BN52171, BN52173, BN52174, BN52175, BN52177, BN52178, BN52179 (50X))

Volatiles - Soil

1,1,1,2-Tetrachloroethane	ND	5.0	80	81	1.2	74	78	5.3	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	85	84	1.2	80	89	10.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	90	91	1.1	82	88	7.1	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	90	91	1.1	83	89	7.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	90	89	1.1	84	92	9.1	70 - 130	30

QA/QC Data

SDG I.D.: GBN52168

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,1-Dichloroethene	ND	5.0	96	96	0.0	86	97	12.0	70 - 130	30	
1,1-Dichloropropene	ND	5.0	90	92	2.2	84	91	8.0	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	89	88	1.1	55	80	37.0	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	5.0	86	84	2.4	83	85	2.4	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	89	89	0.0	50	76	41.3	70 - 130	30	m,r
1,2,4-Trimethylbenzene	ND	1.0	91	93	2.2	78	91	15.4	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	83	86	3.6	75	86	13.7	70 - 130	30	
1,2-Dibromoethane	ND	5.0	88	88	0.0	81	87	7.1	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	93	94	1.1	73	91	22.0	70 - 130	30	
1,2-Dichloroethane	ND	5.0	87	87	0.0	80	87	8.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	88	89	1.1	83	89	7.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	93	94	1.1	83	93	11.4	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	88	91	3.4	69	86	21.9	70 - 130	30	m
1,3-Dichloropropane	ND	5.0	86	86	0.0	81	86	6.0	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	92	93	1.1	69	89	25.3	70 - 130	30	m
2,2-Dichloropropane	ND	5.0	84	86	2.4	77	79	2.6	70 - 130	30	
2-Chlorotoluene	ND	5.0	94	94	0.0	81	92	12.7	70 - 130	30	
2-Hexanone	ND	25	75	74	1.3	71	72	1.4	70 - 130	30	
2-Isopropyltoluene	ND	5.0	106	106	0.0	94	106	12.0	70 - 130	30	
4-Chlorotoluene	ND	5.0	89	90	1.1	74	86	15.0	70 - 130	30	
4-Methyl-2-pentanone	ND	25	83	84	1.2	81	82	1.2	70 - 130	30	
Acetone	ND	10	85	84	1.2	70	72	2.8	70 - 130	30	
Acrylonitrile	ND	5.0	97	97	0.0	93	94	1.1	70 - 130	30	
Benzene	ND	1.0	89	90	1.1	83	91	9.2	70 - 130	30	
Bromobenzene	ND	5.0	93	93	0.0	80	93	15.0	70 - 130	30	
Bromochloromethane	ND	5.0	93	91	2.2	85	92	7.9	70 - 130	30	
Bromodichloromethane	ND	5.0	84	86	2.4	76	83	8.8	70 - 130	30	
Bromoform	ND	5.0	64	65	1.6	57	60	5.1	70 - 130	30	l,m
Bromomethane	ND	5.0	100	96	4.1	39	50	24.7	70 - 130	30	m
Carbon Disulfide	ND	5.0	104	105	1.0	95	104	9.0	70 - 130	30	
Carbon tetrachloride	ND	5.0	74	75	1.3	67	73	8.6	70 - 130	30	m
Chlorobenzene	ND	5.0	90	90	0.0	81	90	10.5	70 - 130	30	
Chloroethane	ND	5.0	97	101	4.0	87	95	8.8	70 - 130	30	
Chloroform	ND	5.0	87	87	0.0	82	89	8.2	70 - 130	30	
Chloromethane	ND	5.0	91	92	1.1	74	80	7.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	91	89	2.2	83	92	10.3	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	85	86	1.2	75	81	7.7	70 - 130	30	
Dibromochloromethane	ND	3.0	75	76	1.3	70	73	4.2	70 - 130	30	
Dibromomethane	ND	5.0	90	91	1.1	82	90	9.3	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	84	85	1.2	67	73	8.6	70 - 130	30	m
Ethylbenzene	ND	1.0	91	91	0.0	82	92	11.5	70 - 130	30	
Hexachlorobutadiene	ND	5.0	91	94	3.2	75	87	14.8	70 - 130	30	
Isopropylbenzene	ND	1.0	90	91	1.1	83	90	8.1	70 - 130	30	
m&p-Xylene	ND	2.0	87	87	0.0	79	88	10.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	77	79	2.6	76	77	1.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	101	99	2.0	94	99	5.2	70 - 130	30	
Methylene chloride	ND	5.0	79	78	1.3	71	75	5.5	70 - 130	30	
Naphthalene	ND	5.0	93	93	0.0	68	88	25.6	70 - 130	30	m
n-Butylbenzene	ND	1.0	94	94	0.0	76	90	16.9	70 - 130	30	
n-Propylbenzene	ND	1.0	92	91	1.1	80	91	12.9	70 - 130	30	
o-Xylene	ND	2.0	89	89	0.0	80	89	10.7	70 - 130	30	
p-Isopropyltoluene	ND	1.0	89	97	8.6	83	94	12.4	70 - 130	30	
sec-Butylbenzene	ND	1.0	94	95	1.1	85	94	10.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBN52168

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Styrene	ND	5.0	84	84	0.0	72	83	14.2	70 - 130	30	
tert-Butylbenzene	ND	1.0	91	92	1.1	83	92	10.3	70 - 130	30	
Tetrachloroethene	ND	5.0	92	94	2.2	83	94	12.4	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	91	93	2.2	90	90	0.0	70 - 130	30	
Toluene	ND	1.0	92	93	1.1	85	94	10.1	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	94	92	2.2	84	93	10.2	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	82	83	1.2	72	80	10.5	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	88	91	3.4	74	77	4.0	70 - 130	30	
Trichloroethene	ND	5.0	90	91	1.1	84	92	9.1	70 - 130	30	
Trichlorofluoromethane	ND	5.0	92	92	0.0	83	90	8.1	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	103	107	3.8	97	104	7.0	70 - 130	30	
Vinyl chloride	ND	5.0	89	91	2.2	73	81	10.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	102	102	0.0	101	101	0.0	70 - 130	30	
% Bromofluorobenzene	100	%	97	96	1.0	97	97	0.0	70 - 130	30	
% Dibromofluoromethane	101	%	98	102	4.0	99	98	1.0	70 - 130	30	
% Toluene-d8	87	%	101	102	1.0	102	102	0.0	70 - 130	30	

Comment:

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

QA/QC Batch 348861 (ug/kg), QC Sample No: BN52968 (BN52170 (50X) , BN52173 (50X) , BN52174 (50X) , BN52177 (50X))

Volatiles - Soil

1,2,3-Trichlorobenzene	ND	5.0	102	94	8.2	33	33	0.0	70 - 130	30	m
1,2,3-Trichloropropane	ND	5.0	95	93	2.1	120	122	1.7	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	103	94	9.1	40	42	4.9	70 - 130	30	m
1,2,4-Trimethylbenzene	ND	1.0	100	93	7.3	75	83	10.1	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	120	118	1.7	104	113	8.3	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	102	96	6.1	79	85	7.3	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	94	6.2	87	93	6.7	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	97	92	5.3	81	87	7.1	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	100	93	7.3	84	90	6.9	70 - 130	30	
2-Chlorotoluene	ND	5.0	100	94	6.2	97	103	6.0	70 - 130	30	
2-Isopropyltoluene	ND	5.0	122	114	6.8	100	106	5.8	70 - 130	30	
4-Chlorotoluene	ND	5.0	94	90	4.3	92	98	6.3	70 - 130	30	
Bromobenzene	ND	5.0	99	95	4.1	104	109	4.7	70 - 130	30	
Hexachlorobutadiene	ND	5.0	104	97	7.0	39	39	0.0	70 - 130	30	m
Isopropylbenzene	ND	1.0	99	94	5.2	101	107	5.8	70 - 130	30	
Naphthalene	ND	5.0	111	103	7.5	38	41	7.6	70 - 130	30	m
n-Butylbenzene	ND	1.0	103	95	8.1	70	76	8.2	70 - 130	30	
n-Propylbenzene	ND	1.0	99	92	7.3	91	98	7.4	70 - 130	30	
p-Isopropyltoluene	ND	1.0	103	95	8.1	89	94	5.5	70 - 130	30	
sec-Butylbenzene	ND	1.0	103	96	7.0	84	88	4.7	70 - 130	30	
tert-Butylbenzene	ND	1.0	99	94	5.2	90	95	5.4	70 - 130	30	
Tetrachloroethene	ND	5.0	104	96	8.0	85	89	4.6	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	148	139	6.3	121	132	8.7	70 - 130	30	l,m
% 1,2-dichlorobenzene-d4	96	%	102	100	2.0	98	98	0.0	70 - 130	30	
% Bromofluorobenzene	104	%	98	98	0.0	91	89	2.2	70 - 130	30	

Comment:

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

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

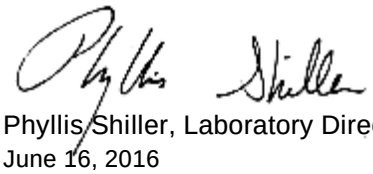
QA/QC Data

SDG I.D.: GBN52168

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

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

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



Phyllis Shiller, Laboratory Director
June 16, 2016

Sample Criteria Exceedences Report

GBN52168 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN52168	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1900	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	ND	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2500	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	ND	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1900	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2500	1700	1000	1000	ug/Kg
BN52168	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	ND	1700	1000	1000	ug/Kg
BN52168	$8260MAR	1,1,1,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	200	200	ug/Kg
BN52168	$8260MAR	1,1,2,2-Tetrachloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	320	100	100	ug/Kg
BN52168	$8260MAR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	100	100	ug/Kg
BN52168	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	100	100	ug/Kg
BN52168	$8260MAR	Benzene	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	200	200	ug/Kg
BN52168	$8260MAR	Dibromochloromethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	320	100	100	ug/Kg
BN52168	$8260MAR	Methylene chloride	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	1100	1000	1000	ug/Kg
BN52168	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	400	400	ug/Kg
BN52168	$8260MAR	1,2-Dichloroethane	CT / VOLATILE ORGANIC COMPOUND / GB PMC (mg/k	ND	540	200	200	ug/Kg
BN52168	$8260MAR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	540	7	7	ug/Kg
BN52168	$8260MAR	Vinyl chloride	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	540	320	320	ug/Kg
BN52168	$8260MAR	1,2-Dibromo-3-chloropropane	CT / VOLATILE ORGANIC COMPOUND / RES DEC (mg/	ND	540	440	440	ug/Kg
BN52168	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GB PMC (mg/kg)	31000	3600	2500	2500	mg/Kg
BN52168	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	31000	3600	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:** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL **Project Number:**

Laboratory Sample ID(s): BN52168, BN52169, BN52170, BN52171, BN52173, BN52174, BN52175, BN52177, BN52178, BN52179, BN52180

Sampling Date(s): 6/9/2016

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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Thursday, June 16, 2016

Printed Name: Ethan Lee

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

NY # 11301

RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. Only the RCRA 8 Metals plus Copper, Nickel, and Zinc are reported as requested on the chain of custody.

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

BN52168 - Due to a suppression of the last internal standard in the low level analysis, all affected compounds are reported from the high level analysis. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

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

BN52180 - The surrogate recovery is below method criteriria for %n-Pentacosane. Insufficient sample is available for re-extraction. A low bias is possible.

QC Batch 348716 (Samples: BN52180): -----

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 H.C.)

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. (Ext. Petroleum H.C.)

Instrument:

AU-FID11 06/13/16-2 Jeff Bucko, Chemist 06/13/16

BN52169

The initial calibration (ETPH607I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36 78.7%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 06/14/16-2 Jeff Bucko, Chemist 06/14/16

BN52168

The initial calibration (ETPH607I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36 70.6%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AUFID-D1 06/13/16-1 Jeff Bucko, Chemist 06/13/16

BN52180

The initial calibration (ETPH607I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 348488 (BN52000)

BN52168, BN52169

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.

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NY # 11301

RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

ETPH Narration

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

Batch 348716 (BN51982)

BN52180

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C.(45%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: Ext. Petroleum H.C.(37.8%)
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Mercury Narration

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

Instrument:

MERLIN 06/13/16 09:11 Rick Schweitzer, Chemist 06/13/16

BN52180

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 348763 (BN52180)

BN52180

All LCS recoveries were within 70 - 130 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

ICP Metals Narration

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

Instrument:

ARCOS 06/10/16 04:02 Emily Kolominskaya, Chemist 06/10/16

BN52180

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

QC (Batch Specific):

Batch 348514 (BN52043)

BN52180

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Certification Report

June 16, 2016

SDG I.D.: GBN52168

ICP Metals Narration

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

PAH Narration

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

QC (Batch Specific):

Batch 348484 (BN52002)

BN52168, BN52169

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:

CHEM05 06/10/16-1 Damien Drobinski, Chemist 06/10/16

BN52168

Initial Calibration Verification (CHEM05/SV_0607):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0610_02-SV_0607):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM25 06/10/16-1 Damien Drobinski, Chemist 06/10/16

BN52169

Initial Calibration Verification (CHEM25/SV_0519):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0610_04-SV_0519):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.

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NY # 11301

RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

SVOA Narration

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

SVOASIM Narration

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

Instrument:

CHEM07 06/13/16-1 Damien Drobinski, Chemist 06/13/16

BN52180

Initial Calibration Verification (CHEM07/SIM_0531):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0613_02-SIM_0531):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 348508 (BN51782)

BN52180

All LCS recoveries were within 30 - 130 with the following exceptions: None.
An LCS is performed instead of LCS Duplicate, matrix spike and matrix spike duplicate.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

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NY # 11301

RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

VOA Narration

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

QC Batch 348557 (Samples: BN52180): -----

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

QC Batch 348856 (Samples: BN52168, BN52169, BN52170, BN52171, BN52173, BN52174, BN52175, BN52177, BN52178, BN52179): -----

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Bromomethane, Carbon tetrachloride, Dichlorodifluoromethane, Naphthalene)

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

The MS/MSD RPD exceeds method criteria for one or more analytes that were not reported in the samples, therefore no sample variability is suspected. (1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene)

QC Batch 348861 (Samples: BN52170, BN52173, BN52174, BN52177): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (trans-1,4-dichloro-2-butene)

Instrument:

CHEM16 06/09/16-2 Harry Mullin, Chemist 06/09/16

BN52180

Initial Calibration Verification (CHEM16/VT-H0609):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 23% (20%), Chloroethane 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/0609H18-VT-H0609):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM18 06/10/16-1 Jane Li, Chemist 06/10/16

BN52168, BN52169, BN52170, BN52171, BN52173, BN52174, BN52175, BN52177, BN52178, BN52179

Initial Calibration Verification (CHEM18/VT-M0605):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

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RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

VOA Narration

Continuing Calibration Verification (CHEM18/0610M02-VT-M0605):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Bromoform 37%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Bromoform 0.082 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM18 06/12/16-1 Jane Li, Chemist 06/12/16

BN52170, BN52173, BN52174, BN52177

Initial Calibration Verification (CHEM18/VT-M0612):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 29% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0612M07-VT-M0612):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 348557 (BN52017)

BN52180

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(146%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 348861 (BN52968)

BN52170, BN52173, BN52174, BN52177

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(148%)
All LCSD recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(139%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 348856 (BN52175)

BN52168, BN52169, BN52170, BN52171, BN52173, BN52174, BN52175, BN52177, BN52178, BN52179

All LCS recoveries were within 70 - 130 with the following exceptions: Bromoform(64%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromoform(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: 1,2,3-Trichlorobenzene(55%), 1,2,4-Trichlorobenzene(50%),

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NY # 11301

RCP Certification Report

June 16, 2016

SDG I.D.: GBN52168

VOA Narration

1,3-Dichlorobenzene(69%), 1,4-Dichlorobenzene(69%), Bromoform(57%), Bromomethane(39%), Carbon tetrachloride(67%), Dichlorodifluoromethane(67%), Naphthalene(68%)
All MSD recoveries were within 70 - 130 with the following exceptions: Bromoform(60%), Bromomethane(50%)
All MS/MSD RPDs were less than 30% with the following exceptions: 1,2,3-Trichlorobenzene(37.0%), 1,2,4-Trichlorobenzene(41.3%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

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

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☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6" w/ clip

CHAIN-OF-CUSTODY RECORD 34454

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	2001454.P60	Phoenix

REPORT TO: Kevin Vanderveer (F&O)
INVOICE TO: ↓
P.O. No.:
Sampler's Signature: _____ Date: 6-9-16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	CTETPH	PAHs (8270)	VOCs (8260)	HOLD	Soil VOA Vial + methanol	Soil VOA Vial + water	Glass Soil Container (4) oz	$Na_2(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
14		125 1160609 - 15	S	6-9-16	0905	X	X	X		1	2	1										52168
15		- 16	↓	↓	0915	X	X	X		↓	↓	↓										52169
16		- 17			1016			X														52170
17		- 18			1017			X														52171
18		- 19			1020				X													52172
19		- 20			1030			X														52173
20		- 21			1035			X														52174
21		- 22			1040			X		3	6	3					52175					MS/MSD
22		- 23			1045				X	1	2	1										52176
23		- 24	↓	↓	1115			X		1	2	1										52177

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____	Caradine	6/9/16	1727
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates ___ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
GB PMC / Res DEC
Additional Comments:
One duplicate for VOCs (no charge)

6°w/c +ice

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☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 34456

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	2001454.P60	Phoenix

REPORT TO: Kevin Vanderveer (F&O)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: _____ Date: 6/9/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank X_2 = Equipment Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	CT ETPH	RCRA 8 Metals + Cu, Ni, Zn	PAHs (8270)	HOLD	Soil VOA Vial, + methanol	Soil VOA Vial + water	Glass Soil Container (8) oz	Na(SO)2	Other:	Other:	Water VOA Vial, ☐ As is + HCl	Glass Amber (1000 ml), X As is ☐ H2SO4	Plastic - As is, ☐ 250 ml ☐ 500	Plastic - H2SO4, ☐ 250 ml ☐ 1000 ml	Plastic - HNO3, 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
24					1251160609 - 25	X	6-9-16	1420	X					2												52178
25					- 26	X	6-9-16	1425	X					1												52179
26					- 27	X_2	↓	1500	X		X	X	X							3	3			1			52180
27					- 28	S	↓	1505					X			1											52181

Transfer Number	Relinquished By	Accepted By	Date	Time
1	_____	Aquaclire	6/9/16	1727
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
___ Duplicates 3 Blanks (Item Nos: 24, 25, 26)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
GB PMC / Res DEC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Wednesday, June 15, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN53057 - BN53059

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

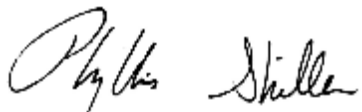
This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

REVIEWED **DMS**
By pbibeau at 2:05 pm, Jun 22, 2016

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

Analysis Report

June 15, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/10/16	8:50
Location Code:	F&O	Received by:	LB	06/10/16	17:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN53056
Phoenix ID: BN53057

Project ID: FORMER ANOCOIL
Client ID: 1251160610-29

SB-72 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	79		%		06/10/16	w	SW846-%Solid
Field Extraction	Completed				06/08/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,1,1-Trichloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.8	ug/Kg	1	06/13/16	JLI	SW8260
1,1,2-Trichloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloroethene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloropropene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2,3-Trichloropropane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dibromoethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichloropropane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,3-Dichlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,3-Dichloropropane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
1,4-Dichlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
2,2-Dichloropropane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
2-Chlorotoluene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
2-Hexanone	ND	23	ug/Kg	1	06/13/16	JLI	SW8260
2-Isopropyltoluene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160610-29

SB-72 (0-1')

Phoenix I.D.: BN53057

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorotoluene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
4-Methyl-2-pentanone	ND	23	ug/Kg	1	06/13/16	JLI	SW8260
Acetone	ND	230	ug/Kg	1	06/13/16	JLI	SW8260
Acrylonitrile	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Benzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Bromobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Bromochloromethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Bromodichloromethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Bromoform	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Bromomethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Carbon Disulfide	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Carbon tetrachloride	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Chlorobenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Chloroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Chloroform	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Chloromethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Dibromochloromethane	ND	2.8	ug/Kg	1	06/13/16	JLI	SW8260
Dibromomethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Dichlorodifluoromethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Ethylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Hexachlorobutadiene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Isopropylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
m&p-Xylene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Methyl Ethyl Ketone	ND	28	ug/Kg	1	06/13/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	9.2	ug/Kg	1	06/13/16	JLI	SW8260
Methylene chloride	ND	9.2	ug/Kg	1	06/13/16	JLI	SW8260
Naphthalene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
n-Butylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
n-Propylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
o-Xylene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
p-Isopropyltoluene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
sec-Butylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Styrene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
tert-Butylbenzene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Tetrachloroethene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	9.2	ug/Kg	1	06/13/16	JLI	SW8260
Toluene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Total Xylenes	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	9.2	ug/Kg	1	06/13/16	JLI	SW8260
Trichloroethene	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Trichlorofluoromethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Trichlorotrifluoroethane	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
Vinyl chloride	ND	4.6	ug/Kg	1	06/13/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/13/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160610-29

SB-72 (0-1')

Phoenix I.D.: BN53057

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Bromofluorobenzene	83		%	1	06/13/16	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	06/13/16	JLI	70 - 130 %
% Toluene-d8	93		%	1	06/13/16	JLI	70 - 130 %

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

Comments:

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.
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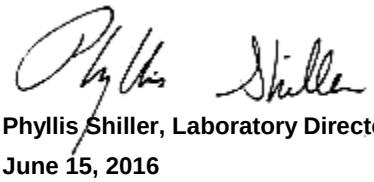

Phyllis Shiller, Laboratory Director
June 15, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 15, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/10/16	8:55
Location Code:	F&O	Received by:	LB	06/10/16	17:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN53056
Phoenix ID: BN53058

Project ID: FORMER ANOCOIL
Client ID: 1251160610-30

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/08/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	06/13/16	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160610-30

Trip Blank - low

Phoenix I.D.: BN53058

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	25	ug/Kg	1	06/13/16	JLI	SW8260
Acetone	ND	250	ug/Kg	1	06/13/16	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Carbon Disulfide	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	06/13/16	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	06/13/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	06/13/16	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	06/13/16	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	06/13/16	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	06/13/16	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	06/13/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	06/13/16	JLI	70 - 130 %
% Bromofluorobenzene	96		%	1	06/13/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160610-30

Trip Blank - low

Phoenix I.D.: BN53058

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	06/13/16	JLI	70 - 130 %
% Toluene-d8	95		%	1	06/13/16	JLI	70 - 130 %

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

Comments:

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

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

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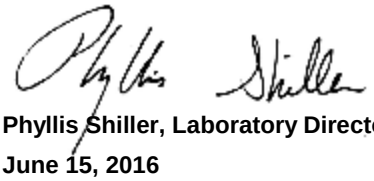


Phyllis Shiller, Laboratory Director
June 15, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

Analysis Report

June 15, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		06/10/16	9:00
Location Code:	F&O	Received by:	LB	06/10/16	17:16
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN53056
Phoenix ID: BN53059

Project ID: FORMER ANOCOIL
Client ID: 1251160610-31

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Field Extraction	Completed				06/08/16		SW5035A
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	06/13/16	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1251160610-31

Trip Blank - high

Phoenix I.D.: BN53059

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	06/13/16	JLI	SW8260
Acetone	ND	5000	ug/Kg	50	06/13/16	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	06/13/16	JLI	SW8260
Benzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	06/13/16	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	06/13/16	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Styrene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	06/13/16	JLI	SW8260
Toluene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	06/13/16	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	06/13/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	50	06/13/16	JLI	70 - 130 %
% Bromofluorobenzene	95		%	50	06/13/16	JLI	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1251160610-31

Trip Blank - high

Phoenix I.D.: BN53059

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	50	06/13/16	JLI	70 - 130 %
% Toluene-d8	95		%	50	06/13/16	JLI	70 - 130 %

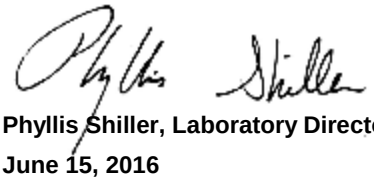
RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

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

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



Phyllis Shiller, Laboratory Director
June 15, 2016
Reviewed and Released by: Ethan Lee, 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

June 15, 2016

QA/QC Data

SDG I.D.: GBN53056

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 348867 (ug/kg), QC Sample No: BN53057 (BN53057, BN53058, BN53059 (50X))											
Volatiles - Soil											
1,1,1,2-Tetrachloroethane	ND	5.0	97	93	4.2	91	98	7.4	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	98	95	3.1	91	97	6.4	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	91	87	4.5	84	92	9.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	95	89	6.5	89	96	7.6	70 - 130	30	
1,1-Dichloroethane	ND	5.0	96	92	4.3	88	94	6.6	70 - 130	30	
1,1-Dichloroethene	ND	5.0	103	95	8.1	86	94	8.9	70 - 130	30	
1,1-Dichloropropene	ND	5.0	99	96	3.1	94	101	7.2	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	93	89	4.4	83	93	11.4	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	82	87	5.9	77	83	7.5	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	95	90	5.4	86	97	12.0	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	94	91	3.2	89	95	6.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	93	84	10.2	80	86	7.2	70 - 130	30	
1,2-Dibromoethane	ND	5.0	96	91	5.3	90	98	8.5	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	94	90	4.3	89	95	6.5	70 - 130	30	
1,2-Dichloroethane	ND	5.0	97	91	6.4	90	98	8.5	70 - 130	30	
1,2-Dichloropropane	ND	5.0	95	91	4.3	89	97	8.6	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	94	91	3.2	89	95	6.5	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	94	91	3.2	90	97	7.5	70 - 130	30	
1,3-Dichloropropane	ND	5.0	91	88	3.4	89	94	5.5	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	94	90	4.3	88	94	6.6	70 - 130	30	
2,2-Dichloropropane	ND	5.0	98	92	6.3	85	91	6.8	70 - 130	30	
2-Chlorotoluene	ND	5.0	95	93	2.1	92	98	6.3	70 - 130	30	
2-Hexanone	ND	25	96	88	8.7	85	92	7.9	70 - 130	30	
2-Isopropyltoluene	ND	5.0	110	107	2.8	105	111	5.6	70 - 130	30	
4-Chlorotoluene	ND	5.0	92	90	2.2	88	93	5.5	70 - 130	30	
4-Methyl-2-pentanone	ND	25	109	98	10.6	97	105	7.9	70 - 130	30	
Acetone	ND	10	95	83	13.5	72	83	14.2	70 - 130	30	
Acrylonitrile	ND	5.0	113	104	8.3	103	111	7.5	70 - 130	30	
Benzene	ND	1.0	94	91	3.2	88	95	7.7	70 - 130	30	
Bromobenzene	ND	5.0	95	91	4.3	90	96	6.5	70 - 130	30	
Bromochloromethane	ND	5.0	99	91	8.4	91	97	6.4	70 - 130	30	
Bromodichloromethane	ND	5.0	99	96	3.1	90	99	9.5	70 - 130	30	
Bromoform	ND	5.0	100	94	6.2	84	90	6.9	70 - 130	30	
Bromomethane	ND	5.0	92	87	5.6	59	66	11.2	70 - 130	30	m
Carbon Disulfide	ND	5.0	109	103	5.7	93	100	7.3	70 - 130	30	
Carbon tetrachloride	ND	5.0	98	94	4.2	86	94	8.9	70 - 130	30	
Chlorobenzene	ND	5.0	93	90	3.3	91	96	5.3	70 - 130	30	
Chloroethane	ND	5.0	95	91	4.3	20	21	4.9	70 - 130	30	m
Chloroform	ND	5.0	98	86	13.0	81	89	9.4	70 - 130	30	
Chloromethane	ND	5.0	94	89	5.5	84	91	8.0	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	94	90	4.3	85	94	10.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBN53056

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	5.0	94	90	4.3	86	95	9.9	70 - 130	30	
Dibromochloromethane	ND	3.0	100	98	2.0	90	96	6.5	70 - 130	30	
Dibromomethane	ND	5.0	97	90	7.5	87	95	8.8	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	91	85	6.8	81	86	6.0	70 - 130	30	
Ethylbenzene	ND	1.0	94	92	2.2	92	98	6.3	70 - 130	30	
Hexachlorobutadiene	ND	5.0	103	99	4.0	95	103	8.1	70 - 130	30	
Isopropylbenzene	ND	1.0	92	90	2.2	90	95	5.4	70 - 130	30	
m&p-Xylene	ND	2.0	95	91	4.3	90	97	7.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	96	87	9.8	88	97	9.7	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	107	99	7.8	95	104	9.0	70 - 130	30	
Methylene chloride	ND	5.0	87	80	8.4	77	83	7.5	70 - 130	30	
Naphthalene	ND	5.0	91	85	6.8	80	91	12.9	70 - 130	30	
n-Butylbenzene	ND	1.0	96	92	4.3	91	97	6.4	70 - 130	30	
n-Propylbenzene	ND	1.0	94	91	3.2	91	95	4.3	70 - 130	30	
o-Xylene	ND	2.0	95	91	4.3	90	97	7.5	70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	94	4.2	93	99	6.3	70 - 130	30	
sec-Butylbenzene	ND	1.0	97	94	3.1	92	98	6.3	70 - 130	30	
Styrene	ND	5.0	93	90	3.3	90	96	6.5	70 - 130	30	
tert-Butylbenzene	ND	1.0	94	92	2.2	90	95	5.4	70 - 130	30	
Tetrachloroethene	ND	5.0	103	99	4.0	96	105	9.0	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	106	95	10.9	94	101	7.2	70 - 130	30	
Toluene	ND	1.0	96	93	3.2	90	99	9.5	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	98	94	4.2	90	97	7.5	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	97	91	6.4	87	97	10.9	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	112	99	12.3	98	105	6.9	70 - 130	30	
Trichloroethene	ND	5.0	97	93	4.2	93	100	7.3	70 - 130	30	
Trichlorofluoromethane	ND	5.0	98	93	5.2	36	47	26.5	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	119	114	4.3	101	113	11.2	70 - 130	30	
Vinyl chloride	ND	5.0	87	82	5.9	82	88	7.1	70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	100	101	1.0	101	99	2.0	70 - 130	30	
% Bromofluorobenzene	96	%	99	99	0.0	100	101	1.0	70 - 130	30	
% Dibromofluoromethane	100	%	102	98	4.0	98	97	1.0	70 - 130	30	
% Toluene-d8	95	%	100	100	0.0	99	99	0.0	70 - 130	30	

Comment:

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

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
June 15, 2016

Sample Criteria Exceedences Report

GBN53056 - FO

Criteria: CT: GBM, RC

State: CT

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

*** No Data to Display ***

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

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL **Project Number:**

Laboratory Sample ID(s): BN53057, BN53058, BN53059

Sampling Date(s): 6/10/2016, 6/8/2016

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 achieved?	☑ 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, June 15, 2016

Printed Name: Ethan Lee

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

NY # 11301

RCP Certification Report

June 15, 2016

SDG I.D.: GBN53056

SDG Comments

Temperature above 6C:
The samples were received in a cooler with ice packs. A low bias can not be ruled out.

VOA Narration

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

Instrument:

CHEM14 06/13/16-1 Jane Li, Chemist 06/13/16

BN53057, BN53058, BN53059

Initial Calibration Verification (CHEM14/VT-0608):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone 27% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM14/0613_02-VT-0608):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 348867 (BN53057)

BN53057, BN53058, BN53059

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

Temperature Narration

The samples were received at 7C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

TWCID

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

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

CHAIN-OF-CUSTODY RECORD 34477

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	2001454.P60	Phoenix

REPORT TO: Kevin Vanderveer
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: _____ Date: 6-10-16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	HOLD	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (4) oz	☐ $Na(SO_3)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
28					125116060 8-02	S	6-8-16	1130		X	1	2	1					53056					HOLD
29					125116061 0-29	S	6-10-16	0850	X		1	2	1					53057					
30					-30	X	6-10-16	0855	X			2						53058					
31					-31	X	6-10-16	0900	X		1							53059					

Transfer Number	Relinquished By	Accepted By	Date	Time
1		TFCuuuu	6-10-16	1116
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
___ Duplicates 2 Blanks (Item Nos: 30, 31)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GB PMC/RSDEC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Monday, August 01, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN78266 - BN78289

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 8:10 am, Aug 02, 2016

PHOENIX
Environmental Laboratories, Inc.

Friday, July 29, 2016

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

Project ID: FORMER ANOCOIL
Sample ID#s: BN78266 - BN78289

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

REVIEWED **DMS**
By pbibeau at 8:10 am, Aug 02, 2016

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

August 01, 2016

SDG I.D.: GBN78266

Version 2: Corrections were made to the ICP section of the RCP narrative.

Version 3: QC batch comment was added to QC batch 353217:
All sample/duplicate RPDs were less than 30% with the following exceptions: Lead

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 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:48
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78266

Project ID: FORMER ANOCOIL
Client ID: 1305160722-28

SS-128 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.95	0.76	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	10.2	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Copper	13.7	0.38	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.27	0.03	mg/Kg	1	07/25/16	MA/RS	SW7471B
Lead	64.6	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	35.4	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	91		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	110	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	2	07/26/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	380	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	350	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	390	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-28

SS-128 (0-1')

Phoenix I.D.: BN78266

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	340	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	460	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	810	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	280	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	460	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	720	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	45		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	42		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	48		%	1	07/23/16	DD	30 - 130 %

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

Comments:

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

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

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:42
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78267

Project ID: FORMER ANOCOIL
Client ID: 1305160722-29 SS-131 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.19	0.90	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.45	0.45	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	23.9	0.45	mg/Kg	1	07/24/16	LK	SW6010C
Copper	20.4	0.45	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.38	0.03	mg/Kg	1	07/25/16	MA/RS	SW7471B
Lead	156	0.45	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	51.4	0.45	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	77		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	660	130	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	118		%	2	07/26/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	300	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	300	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	730	300	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	380	300	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	890	300	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	990	300	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	1400	300	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	780	300	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-29

SS-131 (0-1')

Phoenix I.D.: BN78267

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	980	300	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	1500	300	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	300	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	2800	300	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	300	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	880	300	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	300	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	1300	300	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	2700	300	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	37		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	40		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	50		%	1	07/23/16	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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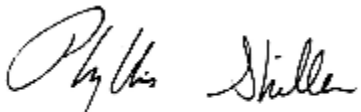

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:36
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78268

Project ID: FORMER ANOCOIL
Client ID: 1305160722-30

SS-131 (0-1') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.42	0.77	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	18.5	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Copper	16.4	0.39	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.26	0.03	mg/Kg	1	07/25/16	MA/RS	SW7471B
Lead	86.6	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	38.3	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	84		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	560	120	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	123		%	2	07/26/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	360	270	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	490	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	570	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	730	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	460	270	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-30

Phoenix I.D.: BN78268

SS-131 (0-1') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	590	270	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	830	270	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	1400	270	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	530	270	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	670	270	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	1300	270	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	41		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	44		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	49		%	1	07/23/16	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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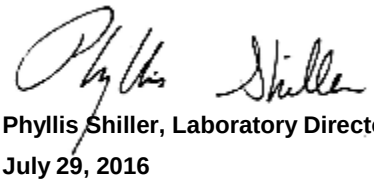

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:30
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78269

Project ID: FORMER ANOCOIL
Client ID: 1305160722-31

SS-139 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	4.97	0.72	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	62.9	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Copper	152	3.6	mg/kg	10	07/25/16	LK	SW6010C
Mercury	0.21	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	549	3.6	mg/Kg	10	07/25/16	LK	SW6010C
Zinc	175	3.6	mg/Kg	10	07/25/16	LK	SW6010C
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	2100	110	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	125		%	2	07/26/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	260	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	470	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	780	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	2000	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	1700	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	1800	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	910	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-31

SS-139 (0-1')

Phoenix I.D.: BN78269

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	1400	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	2400	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	280	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	6200	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	640	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	680	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	4700	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	5200	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	50		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	50		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	71		%	1	07/23/16	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram most closely resembles motor oil. 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.
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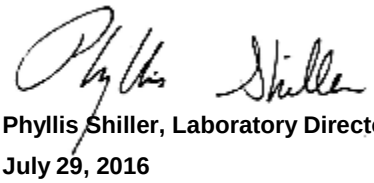

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:24
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78270

Project ID: FORMER ANOCOIL
Client ID: 1305160722-32

SS-140 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.79	0.68	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	14.8	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Copper	14.5	0.34	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.05	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	40.1	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	93.8	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	87		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	57	mg/Kg	1	07/25/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	330	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	320	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-32

SS-140 (0-1')

Phoenix I.D.: BN78270

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	270	260	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	330	260	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	610	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	290	260	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	530	260	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	75		%	1	07/23/16	DD	30 - 130 %

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

Comments:

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

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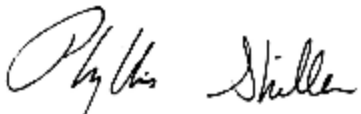

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:18
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78271

Project ID: FORMER ANOCOIL
Client ID: 1305160722-33

SS-126 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.48	0.67	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.34	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	33.4	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Copper	20.6	0.34	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.20	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	607	3.4	mg/Kg	10	07/25/16	LK	SW6010C
Zinc	131	0.34	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	95		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	51	mg/Kg	1	07/25/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	84		%	1	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	300	240	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	890	240	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	920	240	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	820	240	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	580	240	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-33

SS-126 (0-1')

Phoenix I.D.: BN78271

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	770	240	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	1200	240	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	2500	240	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	690	240	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	1500	240	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	2400	240	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	48		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	63		%	1	07/23/16	DD	30 - 130 %

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

Comments:

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

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

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:12
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78272

Project ID: FORMER ANOCOIL
Client ID: 1305160722-34

SS-127 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	14.1	0.80	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	38.2	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Copper	29.7	0.40	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.28	0.03	mg/Kg	1	07/25/16	MA/RS	SW7471B
Lead	273	4.0	mg/Kg	10	07/25/16	LK	SW6010C
Zinc	46.2	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	86		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	360	110	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	119		%	2	07/26/16	KCA	50 - 150 %
Client MS/MSD	Completed				07/25/16		
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	600	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	630	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	810	270	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-34

SS-127 (0-1')

Phoenix I.D.: BN78272

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(ghi)perylene	550	270	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(k)fluoranthene	570	270	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	870	270	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	1400	270	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	620	270	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	700	270	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	1300	270	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	38		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	37		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	41		%	1	07/23/16	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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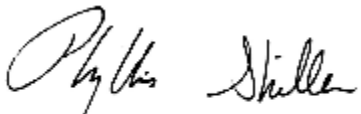

Phyllis Shiller, Laboratory Director
July 29, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:06
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78273

Project ID: FORMER ANOCOIL
Client ID: 1305160722-35

SS-134 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.37	0.72	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	21.2	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Copper	41.5	0.36	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.72	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	173	3.6	mg/Kg	10	07/25/16	LK	SW6010C
Zinc	71.0	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	91		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	250	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	120		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	750	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	320	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	1700	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	4300	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	3900	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	4200	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	2400	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-35

SS-134 (0-1')

Phoenix I.D.: BN78273

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	2900	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	4600	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	640	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	10000	1300	ug/Kg	5	07/25/16	DD	SW8270D
Fluorene	720	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	2900	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	400	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	6600	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	8800	1300	ug/Kg	5	07/25/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	47		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	48		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	63		%	1	07/23/16	DD	30 - 130 %

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

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 standard.

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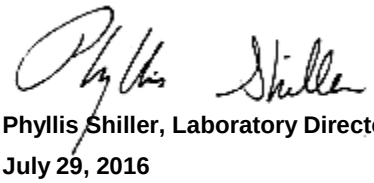

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	10:00
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78274

Project ID: FORMER ANOCOIL
Client ID: 1305160722-36

SS-132 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.57	0.74	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	16.3	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Copper	6.41	0.37	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.03	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	10.9	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	37.4	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	53	mg/Kg	1	07/24/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	07/24/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	07/24/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	340	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	300	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	830	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	870	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	770	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	500	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-36

SS-132 (0-1')

Phoenix I.D.: BN78274

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	750	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	890	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	2300	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	270	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	600	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	2000	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	1900	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	64		%	1	07/23/16	DD	30 - 130 %

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

Comments:

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

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

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

Analysis Report

July 29, 2016

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

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:54
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78275

Project ID: FORMER ANOCOIL
Client ID: 1305160722-37

SS-132 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.97	0.77	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.39	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	24.5	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Copper	23.7	0.39	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.49	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	88.7	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	43.2	0.39	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	90		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	110	mg/Kg	2	07/25/16	K/P	CTETPH 8015D
Identification	ND		mg/Kg	2	07/25/16	K/P	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	98		%	2	07/25/16	K/P	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	760	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	760	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	760	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	550	260	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-37 SS-132 (2-4')

Phoenix I.D.: BN78275

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	570	260	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	900	260	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	2100	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	650	260	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	1100	260	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	2000	260	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	48		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	66		%	1	07/23/16	DD	30 - 130 %

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

Comments:

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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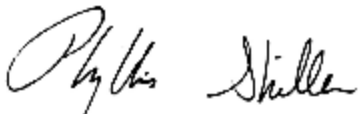

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:48
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78276

Project ID: FORMER ANOCOIL
Client ID: 1305160722-38

SS-138 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.88	0.65	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	0.34	0.32	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	24.4	0.32	mg/Kg	1	07/24/16	LK	SW6010C
Copper	91.9	0.32	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.92	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	98.8	0.32	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	83.6	0.32	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	93		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	220	110	mg/Kg	2	07/27/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/27/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	53		%	2	07/27/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	310	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	330	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	340	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	290	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-38

SS-138 (0-1')

Phoenix I.D.: BN78276

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	290	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	350	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	840	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	340	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	460	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	720	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	41		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	40		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	52		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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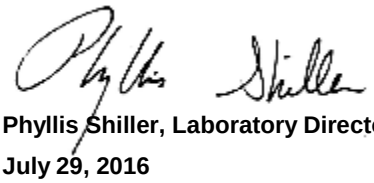

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:42
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78277

Project ID: FORMER ANOCOIL
Client ID: 1305160722-39

SS-129 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	3.29	0.71	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	1.05	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	15.4	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Copper	40.7	0.35	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.40	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	71.3	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	170	3.5	mg/Kg	10	07/25/16	EK	SW6010C
Percent Solid	87		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	880	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	850	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	1200	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	500	260	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-39

SS-129 (0-1')

Phoenix I.D.: BN78277

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	610	260	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	1100	260	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	2200	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	520	260	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	1400	260	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	1800	260	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	55		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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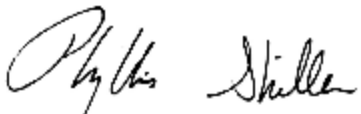

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:36
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78278

Project ID: FORMER ANOCOIL
Client ID: 1305160722-40

SS-133 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.11	0.71	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.36	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	24.1	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Copper	33.3	0.36	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.59	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	140	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	49.5	0.36	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	90		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	120	55	mg/Kg	1	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	1	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	620	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	920	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	2800	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	2400	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	2800	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	1200	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-40

SS-133 (0-1')

Phoenix I.D.: BN78278

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	2200	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	3500	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	7400	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	420	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1500	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	5500	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	6400	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	47		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	54		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	50		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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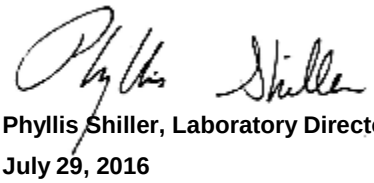

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:30
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78279

Project ID: FORMER ANOCOIL
Client ID: 1305160722-41 SS-133 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	13.9	0.82	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.41	0.41	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	26.2	0.41	mg/Kg	1	07/24/16	LK	SW6010C
Copper	20.2	0.41	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.37	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	138	0.41	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	26.1	0.41	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	87		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	510	110	mg/Kg	2	07/26/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/26/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	100		%	2	07/26/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	290	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	310	260	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-41

SS-133 (2-4')

Phoenix I.D.: BN78279

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	270	260	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	330	260	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	40		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	46		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	43		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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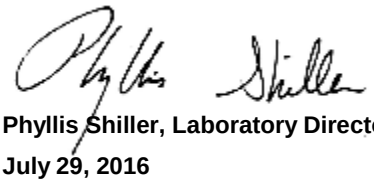

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:24
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78280

Project ID: FORMER ANOCOIL
Client ID: 1305160722-42 SS-130 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	6.16	0.77	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.38	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	21.8	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Copper	11.6	0.38	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.17	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	65.3	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	29.9	0.38	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	93		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	110	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	108		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	290	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-42

SS-130 (0-1')

Phoenix I.D.: BN78280

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	290	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	450	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	280	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	420	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	46		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	49		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 standard.

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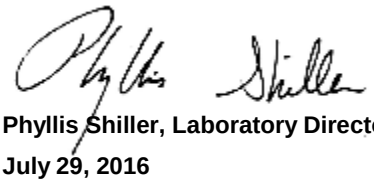

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:18
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78281

Project ID: FORMER ANOCOIL
Client ID: 1305160722-43

SS-130 (2-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	2.77	0.74	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	17.2	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Copper	8.64	0.37	mg/kg	1	07/24/16	LK	SW6010C
Mercury	< 0.03	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	8.83	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	29.1	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	94		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/25/16	NB/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	52	mg/Kg	1	07/25/16	KCA	CTETPH 8015D
Identification	ND		mg/Kg	1	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-43

SS-130 (2-4')

Phoenix I.D.: BN78281

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	07/25/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	07/25/16	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	07/25/16	DD	30 - 130 %
% Terphenyl-d14	57		%	1	07/25/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:12
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78282

Project ID: FORMER ANOCOIL
Client ID: 1305160722-44 SS-135 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	8.73	0.73	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.37	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	38.0	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Copper	19.2	0.37	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.14	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	134	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	32.3	0.37	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	140	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	119		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Benz(a)anthracene	550	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(a)pyrene	580	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(b)fluoranthene	710	250	ug/Kg	1	07/23/16	DD	SW8270D
Benzo(ghi)perylene	440	250	ug/Kg	1	07/23/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-44

SS-135 (0-1')

Phoenix I.D.: BN78282

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	360	250	ug/Kg	1	07/23/16	DD	SW8270D
Chrysene	790	250	ug/Kg	1	07/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluoranthene	1200	250	ug/Kg	1	07/23/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	490	250	ug/Kg	1	07/23/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	07/23/16	DD	SW8270D
Phenanthrene	690	250	ug/Kg	1	07/23/16	DD	SW8270D
Pyrene	1100	250	ug/Kg	1	07/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	07/23/16	DD	30 - 130 %
% Nitrobenzene-d5	59		%	1	07/23/16	DD	30 - 130 %
% Terphenyl-d14	59		%	1	07/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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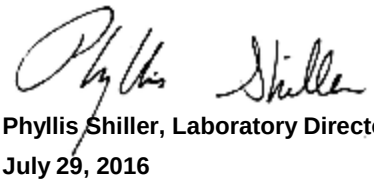

Phyllis Shiller, Laboratory Director
July 29, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:06
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78283

Project ID: FORMER ANOCOIL
Client ID: 1305160722-45

SS-137 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	9.12	0.80	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.40	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	26.1	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Copper	18.9	0.40	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.24	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	123	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	32.6	0.40	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	88		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/26/16	NB/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	230	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	117		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Benz(a)anthracene	550	260	ug/Kg	1	07/27/16	DD	SW8270D
Benzo(a)pyrene	630	260	ug/Kg	1	07/27/16	DD	SW8270D
Benzo(b)fluoranthene	850	260	ug/Kg	1	07/27/16	DD	SW8270D
Benzo(ghi)perylene	490	260	ug/Kg	1	07/27/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-45

SS-137 (0-1')

Phoenix I.D.: BN78283

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	730	260	ug/Kg	1	07/27/16	DD	SW8270D
Chrysene	980	260	ug/Kg	1	07/27/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Fluoranthene	1300	260	ug/Kg	1	07/27/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	550	260	ug/Kg	1	07/27/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/27/16	DD	SW8270D
Phenanthrene	840	260	ug/Kg	1	07/27/16	DD	SW8270D
Pyrene	1300	260	ug/Kg	1	07/27/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	07/27/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	07/27/16	DD	30 - 130 %
% Terphenyl-d14	49		%	1	07/27/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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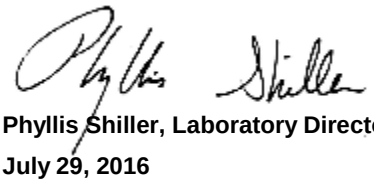

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	9:00
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78284

Project ID: FORMER ANOCOIL
Client ID: 1305160722-46 SS-136 (0-1')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Arsenic	12.2	0.69	mg/Kg	1	07/24/16	LK	SW6010C
Cadmium	< 0.35	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Chromium	29.6	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Copper	20.1	0.35	mg/kg	1	07/24/16	LK	SW6010C
Mercury	0.29	0.03	mg/Kg	1	07/25/16	RS	SW7471B
Lead	132	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Zinc	35.8	0.35	mg/Kg	1	07/24/16	LK	SW6010C
Percent Solid	87		%		07/22/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				07/22/16	NJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/22/16	NJ/CKV	SW3545A
Mercury Digestion	Completed				07/25/16	W/W	SW7471B
Total Metals Digest	Completed				07/22/16	X/AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	170	110	mg/Kg	2	07/25/16	KCA	CTETPH 8015D
Identification	**		mg/Kg	2	07/25/16	KCA	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	119		%	2	07/25/16	KCA	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Benz(a)anthracene	360	260	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(a)pyrene	440	260	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(b)fluoranthene	540	260	ug/Kg	1	07/25/16	DD	SW8270D
Benzo(ghi)perylene	340	260	ug/Kg	1	07/25/16	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1305160722-46

SS-136 (0-1')

Phoenix I.D.: BN78284

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	470	260	ug/Kg	1	07/25/16	DD	SW8270D
Chrysene	610	260	ug/Kg	1	07/25/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Fluoranthene	910	260	ug/Kg	1	07/25/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	380	260	ug/Kg	1	07/25/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	07/25/16	DD	SW8270D
Phenanthrene	450	260	ug/Kg	1	07/25/16	DD	SW8270D
Pyrene	850	260	ug/Kg	1	07/25/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	46		%	1	07/25/16	DD	30 - 130 %
% Nitrobenzene-d5	46		%	1	07/25/16	DD	30 - 130 %
% Terphenyl-d14	48		%	1	07/25/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram was not a perfect match with any of the standards, but contains a distribution in the C24 to C36 range. The sample was quantitated against a C9-C36 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.
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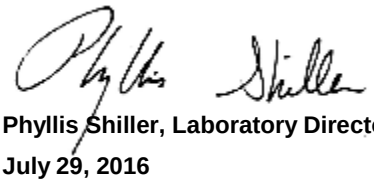

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	11:55
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78285

Project ID: FORMER ANOCOIL
Client ID: 1305160722-47 SB-73 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Halogenated Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1,1-Trichloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2-Trichloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloropropene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2,3-Trichloropropane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromoethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichlorobenzene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloropropane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichlorobenzene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichloropropane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
1,4-Dichlorobenzene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
2,2-Dichloropropane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Bromobenzene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Bromodichloromethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Bromoform	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Bromomethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Carbon tetrachloride	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Chlorobenzene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Chloroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Chloroform	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1305160722-47

SB-73 (0.5-2')

Phoenix I.D.: BN78285

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Dibromochloromethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Dibromomethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Dichlorodifluoromethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Methylene chloride	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Tetrachloroethene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	7.6	ug/Kg	1	07/25/16	JLI	SW8260
Trichloroethene	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorofluoromethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorotrifluoroethane	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
Vinyl chloride	ND	3.8	ug/Kg	1	07/25/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	111		%	1	07/25/16	JLI	70 - 130 %
% Bromofluorobenzene	86		%	1	07/25/16	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	07/25/16	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/25/16	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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.
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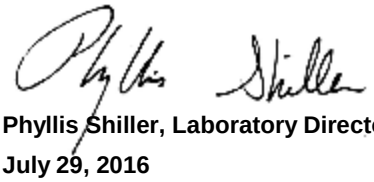

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	12:16
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78286

Project ID: FORMER ANOCOIL
Client ID: 1305160722-48

SB-74 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Halogenated Volatiles							
1,1,1,2-Tetrachloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1,1-Trichloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2-Trichloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloropropene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2,3-Trichloropropane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromoethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichlorobenzene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloropropane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichlorobenzene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichloropropane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
1,4-Dichlorobenzene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
2,2-Dichloropropane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Bromobenzene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Bromodichloromethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Bromoform	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Bromomethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Carbon tetrachloride	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Chlorobenzene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Chloroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Chloroform	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1305160722-48 SB-74 (0.5-2')

Phoenix I.D.: BN78286

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Dibromochloromethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Dibromomethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Dichlorodifluoromethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Methylene chloride	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Tetrachloroethene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	6.5	ug/Kg	1	07/25/16	JLI	SW8260
Trichloroethene	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorofluoromethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorotrifluoroethane	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
Vinyl chloride	ND	3.3	ug/Kg	1	07/25/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	108		%	1	07/25/16	JLI	70 - 130 %
% Bromofluorobenzene	80		%	1	07/25/16	JLI	70 - 130 %
% Dibromofluoromethane	103		%	1	07/25/16	JLI	70 - 130 %
% Toluene-d8	97		%	1	07/25/16	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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.
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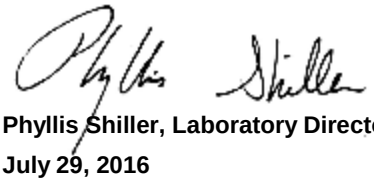

Phyllis Shiller, Laboratory Director
July 29, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	12:30
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78287

Project ID: FORMER ANOCOIL
Client ID: 1305160722-49

SB-75 (0.5-2')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/22/16	W	SW846-%Solid
Halogenated Volatiles							
1,1,1,2-Tetrachloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1,1-Trichloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2-Trichloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloropropene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2,3-Trichloropropane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromoethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichlorobenzene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloropropane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichlorobenzene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichloropropane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
1,4-Dichlorobenzene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
2,2-Dichloropropane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Bromobenzene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Bromodichloromethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Bromoform	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Bromomethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Carbon tetrachloride	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Chlorobenzene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Chloroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Chloroform	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1305160722-49

SB-75 (0.5-2')

Phoenix I.D.: BN78287

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloromethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,2-Dichloroethene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Dibromochloromethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Dibromomethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Dichlorodifluoromethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Methylene chloride	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Tetrachloroethene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	5.8	ug/Kg	1	07/25/16	JLI	SW8260
Trichloroethene	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorofluoromethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorotrifluoroethane	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
Vinyl chloride	ND	2.9	ug/Kg	1	07/25/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	07/25/16	JLI	70 - 130 %
% Bromofluorobenzene	89		%	1	07/25/16	JLI	70 - 130 %
% Dibromofluoromethane	101		%	1	07/25/16	JLI	70 - 130 %
% Toluene-d8	96		%	1	07/25/16	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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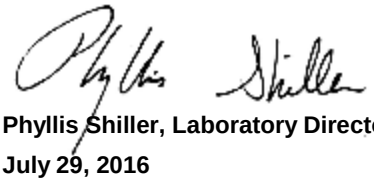

Phyllis Shiller, Laboratory Director

July 29, 2016

Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	13:00
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78288

Project ID: FORMER ANOCOIL
Client ID: 1305160722-50

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Halogenated Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1305160722-50

Trip Blank - high

Phoenix I.D.: BN78288

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Methylene chloride	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	1300	ug/Kg	50	07/25/16	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	07/25/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	50	07/25/16	JLI	70 - 130 %
% Bromofluorobenzene	94		%	50	07/25/16	JLI	70 - 130 %
% Dibromofluoromethane	95		%	50	07/25/16	JLI	70 - 130 %
% Toluene-d8	99		%	50	07/25/16	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Results are reported on an ``as received`` basis, and are not corrected for dry weight., TRIP BLANK INCLUDED.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 29, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 29, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:	BC	07/22/16	13:02
Location Code:	F&O	Received by:	SW	07/22/16	13:54
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN78266
Phoenix ID: BN78289

Project ID: FORMER ANOCOIL
Client ID: 1305160722-51

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Halogenated Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1305160722-51

Trip Blank - low

Phoenix I.D.: BN78289

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Dibromochloromethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Methylene chloride	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	07/25/16	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	07/25/16	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	07/25/16	JLI	70 - 130 %
% Bromofluorobenzene	94		%	1	07/25/16	JLI	70 - 130 %
% Dibromofluoromethane	98		%	1	07/25/16	JLI	70 - 130 %
% Toluene-d8	98		%	1	07/25/16	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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July 29, 2016
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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

July 29, 2016

QA/QC Data

SDG I.D.: GBN78266

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 353332 (mg/kg), QC Sample No: BN78125 (BN78269, BN78270, BN78271, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284)														
Mercury - Soil	BRL	0.03	0.17	0.21	21.1	93.8	112	17.7				70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 353330 (mg/kg), QC Sample No: BN78272 (BN78266, BN78267, BN78268, BN78272)														
Mercury - Soil	BRL	0.03	0.28	0.22	24.0	89.1	76.2	15.6	67.3			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 353241 (mg/kg), QC Sample No: BN78274 (BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280)														
ICP Metals - Soil														
Arsenic	BRL	0.66	2.57	2.28	NC	91.8			90.1			75 - 125	30	
Cadmium	BRL	0.33	<0.37	<0.34	NC	90.1			91.9			75 - 125	30	
Chromium	BRL	0.33	16.3	16.5	1.20	97.8			99.8			75 - 125	30	
Copper	BRL	0.33	6.41	7.44	14.9	99.4			107			75 - 125	30	
Lead	BRL	0.33	10.9	13.7	22.8	89.1			92.3			75 - 125	30	
Zinc	BRL	0.33	37.4	40.2	7.20	93.5			93.0			75 - 125	30	
QA/QC Batch 353217 (mg/kg), QC Sample No: BN78281 (BN78281, BN78282, BN78283, BN78284)														
ICP Metals - Soil														
Arsenic	BRL	0.66	2.77	3.11	NC	84.5			84.4			75 - 125	30	
Cadmium	BRL	0.33	<0.37	<0.38	NC	88.3			88.7			75 - 125	30	
Chromium	BRL	0.33	17.2	18.0	4.50	90.5			94.2			75 - 125	30	
Copper	BRL	0.33	8.64	7.62	12.5	92.8			97.6			75 - 125	30	
Lead	BRL	0.33	8.83	12.5	34.4	85.5			88.8			75 - 125	30	r
Zinc	BRL	0.33	29.1	28.8	1.00	85.9			87.0			75 - 125	30	
QA/QC Batch 353216 (mg/kg), QC Sample No: BN79034 (BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273)														
ICP Metals - Soil														
Arsenic	BRL	0.67	6.04	6.48	7.00	95.4			86.3			75 - 125	30	
Cadmium	BRL	0.33	0.18	<0.35	NC	96.1			88.0			75 - 125	30	
Chromium	BRL	0.33	33.7	30.6	9.60	98.4			90.6			75 - 125	30	
Copper	BRL	0.33	43.0	41.2	4.30	96.3			89.4			75 - 125	30	
Lead	BRL	0.33	52.9	53.9	1.90	93.0			87.5			75 - 125	30	
Zinc	BRL	0.33	125	107	15.5	93.8			82.6			75 - 125	30	

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 29, 2016

QA/QC Data

SDG I.D.: GBN78266

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 353514 (ug/kg), QC Sample No: BN77301 (BN78285, BN78286, BN78287, BN78288 (50X) , BN78289)											
Volatiles - Solid											
1,1,1,2-Tetrachloroethane	ND	5.0	115	108	6.3	113			70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	101	95	6.1	101			70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	106	102	3.8	107			70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	99	95	4.1	98			70 - 130	30	
1,1-Dichloroethane	ND	5.0	98	93	5.2	98			70 - 130	30	
1,1-Dichloroethene	ND	5.0	98	89	9.6	100			70 - 130	30	
1,1-Dichloropropene	ND	5.0	100	94	6.2	98			70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	102	97	5.0	103			70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	121	117	3.4	113			70 - 130	30	
1,2-Dibromoethane	ND	5.0	107	101	5.8	106			70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	105	99	5.9	97			70 - 130	30	
1,2-Dichloroethane	ND	5.0	101	96	5.1	98			70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	93	6.3	98			70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	104	98	5.9	95			70 - 130	30	
1,3-Dichloropropane	ND	5.0	103	98	5.0	104			70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	104	98	5.9	95			70 - 130	30	
2,2-Dichloropropane	ND	5.0	103	97	6.0	98			70 - 130	30	
Bromobenzene	ND	5.0	105	99	5.9	102			70 - 130	30	
Bromodichloromethane	ND	5.0	115	108	6.3	110			70 - 130	30	
Bromoform	ND	5.0	134	127	5.4	124			70 - 130	30	I
Bromomethane	ND	5.0	92	85	7.9	108			70 - 130	30	
Carbon tetrachloride	ND	5.0	109	103	5.7	104			70 - 130	30	
Chlorobenzene	ND	5.0	103	96	7.0	100			70 - 130	30	
Chloroethane	ND	5.0	92	82	11.5	96			70 - 130	30	
Chloroform	ND	5.0	100	94	6.2	99			70 - 130	30	
Chloromethane	ND	5.0	77	66	15.4	82			70 - 130	30	I
cis-1,2-Dichloroethene	ND	5.0	98	93	5.2	97			70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	108	102	5.7	102			70 - 130	30	
Dibromochloromethane	ND	3.0	130	122	6.3	125			70 - 130	30	
Dibromomethane	ND	5.0	101	97	4.0	100			70 - 130	30	
Dichlorodifluoromethane	ND	5.0	63	48	27.0	83			70 - 130	30	I
Methylene chloride	ND	5.0	93	86	7.8	107			70 - 130	30	
Tetrachloroethene	ND	5.0	100	94	6.2	96			70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	99	90	9.5	97			70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	112	107	4.6	105			70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	131	125	4.7	120			70 - 130	30	I
Trichloroethene	ND	5.0	100	94	6.2	98			70 - 130	30	
Trichlorofluoromethane	ND	5.0	91	82	10.4	95			70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	94	86	8.9	96			70 - 130	30	
Vinyl chloride	ND	5.0	88	75	16.0	93			70 - 130	30	
% 1,2-dichlorobenzene-d4	104	%	102	104	1.9	101			70 - 130	30	

QA/QC Data

SDG I.D.: GBN78266

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Bromofluorobenzene	95	%		101	101	0.0	101			70 - 130	30
% Dibromofluoromethane	98	%		102	106	3.8	102			70 - 130	30
% Toluene-d8	98	%		101	101	0.0	100			70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 353232 (mg/Kg), QC Sample No: BN78180 (BN78274, BN78275)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum H.C.	ND	50		66	63	4.7	61			60 - 120	30
% n-Pentacosane	107	%		80	77	3.8	69			50 - 150	30

QA/QC Batch 353278 (mg/Kg), QC Sample No: BN78272 (BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284)

TPH by GC (Extractable Products) - Solid

Ext. Petroleum H.C.	ND	50		71	64	10.4				60 - 120	30
% n-Pentacosane	59	%		77	68	12.4				50 - 150	30

Comment:

*The MS/MSD could not be analyzed because of matrix interference. The LCS was within QA/QC criteria.

QA/QC Batch 353277 (ug/kg), QC Sample No: BN78272 (BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78282, BN78283, BN78284)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230		55	53	3.7	44	45	2.2	30 - 130	30
Acenaphthene	ND	230		61	59	3.3	45	47	4.3	30 - 130	30
Acenaphthylene	ND	230		59	57	3.4	42	44	4.7	30 - 130	30
Anthracene	ND	230		62	60	3.3	43	44	2.3	30 - 130	30
Benz(a)anthracene	ND	230		63	63	0.0	44	45	2.2	30 - 130	30
Benzo(a)pyrene	ND	230		60	59	1.7	37	37	0.0	30 - 130	30
Benzo(b)fluoranthene	ND	230		61	63	3.2	43	43	0.0	30 - 130	30
Benzo(ghi)perylene	ND	230		68	68	0.0	34	35	2.9	30 - 130	30
Benzo(k)fluoranthene	ND	230		63	57	10.0	38	44	14.6	30 - 130	30
Chrysene	ND	230		66	65	1.5	45	47	4.3	30 - 130	30
Dibenz(a,h)anthracene	ND	230		70	69	1.4	38	41	7.6	30 - 130	30
Fluoranthene	ND	230		64	62	3.2	44	44	0.0	30 - 130	30
Fluorene	ND	230		62	61	1.6	47	48	2.1	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230		70	69	1.4	36	38	5.4	30 - 130	30
Naphthalene	ND	230		53	51	3.8	43	43	0.0	30 - 130	30
Phenanthrene	ND	230		61	60	1.7	48	44	8.7	30 - 130	30
Pyrene	ND	230		65	62	4.7	45	46	2.2	30 - 130	30
% 2-Fluorobiphenyl	55	%		53	52	1.9	41	44	7.1	30 - 130	30
% Nitrobenzene-d5	48	%		48	46	4.3	42	42	0.0	30 - 130	30
% Terphenyl-d14	62	%		59	57	3.4	43	46	6.7	30 - 130	30

QA/QC Batch 353393 (ug/kg), QC Sample No: BN78427 (BN78281)

Polynuclear Aromatic HC - Solid

2-Methylnaphthalene	ND	230		55	55	0.0	59			30 - 130	30
Acenaphthene	ND	230		52	52	0.0	53			30 - 130	30
Acenaphthylene	ND	230		50	50	0.0	50			30 - 130	30
Anthracene	ND	230		53	54	1.9	57			30 - 130	30
Benz(a)anthracene	ND	230		52	52	0.0	69			30 - 130	30
Benzo(a)pyrene	ND	230		51	52	1.9	59			30 - 130	30
Benzo(b)fluoranthene	ND	230		53	53	0.0	79			30 - 130	30
Benzo(ghi)perylene	ND	230		54	55	1.8	37			30 - 130	30
Benzo(k)fluoranthene	ND	230		53	53	0.0	40			30 - 130	30
Chrysene	ND	230		55	56	1.8	74			30 - 130	30

QA/QC Data

SDG I.D.: GBN78266

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Dibenz(a,h)anthracene	ND	230	55	56	1.8	57			30 - 130	30	
Fluoranthene	ND	230	54	55	1.8	NC			30 - 130	30	
Fluorene	ND	230	53	52	1.9	61			30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	54	55	1.8	41			30 - 130	30	
Naphthalene	ND	230	51	53	3.8	52			30 - 130	30	
Phenanthrene	ND	230	53	53	0.0	152			30 - 130	30	m
Pyrene	ND	230	56	57	1.8	NC			30 - 130	30	
% 2-Fluorobiphenyl	50	%	48	48	0.0	44			30 - 130	30	
% Nitrobenzene-d5	48	%	48	48	0.0	46			30 - 130	30	
% Terphenyl-d14	59	%	53	54	1.9	46			30 - 130	30	

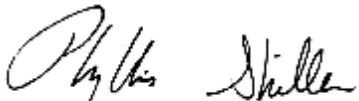
Comment:

MSD not reported for this batch.

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 29, 2016

Sample Criteria Exceedences Report

GBN78266 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN78267	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	300	1000	1000	ug/Kg
BN78267	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	300	1000	1000	ug/Kg
BN78267	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	660	130	500	500	mg/Kg
BN78268	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	560	120	500	500	mg/Kg
BN78269	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2000	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	250	1000	1000	ug/Kg
BN78269	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1800	250	1000	1000	ug/Kg
BN78269	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	2100	110	500	500	mg/Kg
BN78269	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	549	3.6	400	400	mg/Kg
BN78271	PB-SM	Lead	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	607	3.4	400	400	mg/Kg
BN78272	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	14.1	0.80	10	10	mg/Kg
BN78273	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	4300	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3900	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	4200	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2900	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3900	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4200	250	1000	1000	ug/Kg
BN78273	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	4300	250	1000	1000	ug/Kg
BN78277	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1200	260	1000	1000	ug/Kg
BN78277	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	260	1000	1000	ug/Kg
BN78278	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2800	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2200	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2800	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2400	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2400	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2800	250	1000	1000	ug/Kg
BN78278	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2800	250	1000	1000	ug/Kg
BN78279	$ETPH_SMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / RES DEC (mg/kg)	510	110	500	500	mg/Kg
BN78279	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	13.9	0.82	10	10	mg/Kg
BN78284	AS-SM	Arsenic	CT / INORGANIC SUBSTANCES / RES DEC (mg/kg)	12.2	0.69	10	10	mg/Kg

Sample Criteria Exceedences Report

GBN78266 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BN78266-BN78289 ***Sampling Date(s):*** 7/22/2016

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: Mercury Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Monday, August 01, 2016

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

August 01, 2016

SDG I.D.: GBN78266

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the halogenated volatile organic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Nickel, Selenium, Silver, Thallium, Vanadium.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 07/25/16-1 Keith Aloisa, Chemist 07/25/16

BN78279, BN78281

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 07/25/16-1 Keith Aloisa, Chemist 07/25/16

BN78266, BN78267, BN78268, BN78269, BN78272, BN78273, BN78277, BN78278

The initial calibration (ETPH707I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:
Samples: BN78266, BN78267, BN78268, BN78269, BN78272, BN78273, BN78277, BN78278
Preceding CC 725A016 - None.
Succeeding CC 725A029 - ETPH (C9-C36) -34%L (30%), Pentacosane -72%L (30%)

AU-XL1 07/23/16-1 Keith Aloisa, Chemist 07/23/16

BN78274

The initial calibration (ETPH720I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C36 139.7%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 07/27/16-1 Keith Aloisa, Chemist 07/27/16

BN78276

The initial calibration (ETPH722I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 353232 (BN78180)

BN78274, BN78275

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.

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NY # 11301

RCP Certification Report

August 01, 2016

SDG I.D.: GBN78266

ETPH Narration

QC (Site Specific):

Batch 353278 (BN78272)

BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284

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.
*The MS/MSD could not be analyzed because of matrix interference. The LCS was within QA/QC criteria.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 353330 (Samples: BN78266, BN78267, BN78268, BN78272): -----

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. (Mercury)

Instrument:

MERLIN 07/25/16 08:52 Mike Arsenault, Rick Schweitzer, Rick Schweitzer, Chemist 0

BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 353332 (BN78125)

BN78269, BN78270, BN78271, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

QC (Site Specific):

Batch 353330 (BN78272)

BN78266, BN78267, BN78268, BN78272

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.

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NY # 11301

Certification Report

August 01, 2016

SDG I.D.: GBN78266

Mercury Narration

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(67.3%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 07/23/16 19:16 Emily Kolominskaya, Laura Kinnin, Chemist 07/23/16

BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78281, BN78282, BN78283, BN78284

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 07/25/16 06:35 Emily Kolominskaya, Laura Kinnin, Chemist 07/25/16

BN78269, BN78271, BN78272, BN78273, BN78277

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 353216 (BN79034)

BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 353217 (BN78281)

BN78281, BN78282, BN78283, BN78284

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
All sample/duplicate RPDs were less than 30% with the following exceptions: Lead

Batch 353241 (BN78274)

BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PAH Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

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NY # 11301

Certification Report

August 01, 2016

SDG I.D.: GBN78266

PAH Narration

QC (Batch Specific):

Batch 353393 (BN78427)

BN78281

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.
MSD not reported for this batch.

QC (Site Specific):

Batch 353277 (BN78272)

BN78266, BN78267, BN78268, BN78269, BN78270, BN78271, BN78272, BN78273, BN78274, BN78275, BN78276, BN78277, BN78278, BN78279, BN78280, BN78282, BN78283, BN78284

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.

PAH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM05 07/22/16-1 Damien Drobinski, Chemist 07/22/16

Initial Calibration Verification (CHEM05/BN_0621):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0722_07A-BN_0621):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM06 07/22/16-2 Damien Drobinski, Chemist 07/22/16

BN78277, BN78278, BN78279, BN78280, BN78282

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/SV_0719):
100% of target compounds met criteria.

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NY # 11301

RCP Certification Report

August 01, 2016

SDG I.D.: GBN78266

PAH Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0722_37A-SV_0719):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM12 07/25/16-2 Damien Drobinski, Chemist 07/25/16

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_0708):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM12/0725_09-BN_0708):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 07/26/16-1 Damien Drobinski, Chemist 07/26/16

Initial Calibration Verification (CHEM19/BN_0722):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0726_04-BN_0722):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 07/25/16-1 Damien Drobinski, Chemist 07/25/16

BN78273, BN78284

Initial Calibration Verification (CHEM27/SV_0722):

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

August 01, 2016

SDG I.D.: GBN78266

PAH Narration

95% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Acenaphthene 0.865 (0.9)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0725_02-SV_0722):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Acenaphthene 0.858 (0.9)
The following compounds did not meet minimum response factors: None.

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 353514 (Samples: BN78285, BN78286, BN78287, BN78288, BN78289): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (Dichlorodifluoromethane)

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Bromoform, trans-1,4-dichloro-2-butene)

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. (Chloromethane)

Instrument:

CHEM03 07/25/16-1 Jane Li, Chemist 07/25/16

BN78285, BN78286, BN78287, BN78288, BN78289

Initial Calibration Verification (CHEM03/VT-L0723):
91% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 30% (20%), Bromoform 37% (20%), Chloroethane 22% (20%), Dibromochloromethane 27% (20%), trans-1,4-dichloro-2-butene 30% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM03/0725L02-VT-L0723):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 353514 (BN77301)

BN78285, BN78286, BN78287, BN78288, BN78289

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

August 01, 2016

SDG I.D.: GBN78266

VOA Narration

All LCS recoveries were within 70 - 130 with the following exceptions: Bromoform(134%), Dichlorodifluoromethane(63%), trans-1,4-dichloro-2-butene(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Chloromethane(66%), Dichlorodifluoromethane(48%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6°a/c 4°p

CHAIN-OF-CUSTODY RECORD 36406

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Arocoil	Rockville, CT	20014S4.P60	Phoenix

REPORT TO: Kevin Vanderveer (FHO)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Brian Clark Date: 7/22/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	Arsenic, Cadmium, Chromium, Copper, Lead, Mercury, Zinc	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ As is	Plastic - As is, ☐ 250 ml ☐ 500	Plastic - H_2SO_4, ☐ 250 ml ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ 500 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
01					1305160722-28	S	7/22/16	1048	X	X	X	X						1							78266
02					-29			1042																	78267
03					-30			1036																	78268
04					-31			1030																	78269
05					-32			1024																	78270
06					-33			1018																	78271
07					-34			1012										3					78272		MS/MSD
08					-35			1006										1							78273
09					-36			1000																	78274
10					-37	↓		0954	↓	↓	↓	↓						↓							78275

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Brian Clark	Quadrite	7/22/16	1354
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
1 Duplicates ___ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
RSR DEC & GB PMC
Additional Comments:
Duplicate & MS/MSD included

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☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6°w/ice

CHAIN-OF-CUSTODY RECORD 36407

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
~~Anacol~~ Former Anacol	Rockville CT	20014454.P60	Phoenix

REPORT TO: Kevin Vanderveer (f+o)
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 7/22/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request

Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	arsenic, cadmium, chromium, copper, lead, mercury, zinc	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11	✓				130516072 2-38	S	7/22/16	0948	X	X	X	X					1							78276
12	✓				-39			0942															78277
13	✓				-40			0936															78278
14	✓				-41			0930															78279
15	✓				-42			0924															78280
16	✓				-43			0918															78281
17	✓				-44			0912															78282
18	✓				-45			0906															78283
19	✓				-46			0900															78284
~~20~~	✓				~~-47 DUP~~																		~~78285~~

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Caudire	7/22/16	1354
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
___ Duplicates ___ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Res DEC GB PMC
Additional Comments:

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☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6°w/c ice

CHAIN-OF-CUSTODY RECORD 36408

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other ____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	2001454.P60	Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO:
P.O. NO.:
Sampler's Signature: [signature] Date: 7/22/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Chlorinated VOCs	Soil VOA Vial, ☒ methanol	Soil VOA Vial, ☒ water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
20					1305760722 - 47	S	7/22/16	1155	X	1	2	1									78285
21					-48	↓		1216		1	2	1									78286
22					-49	↓		1230		1	2	1									78287
23					-50	X		1300		1											78288
24					-51	X	↓	1302	↓		2										78289

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	7/22/16	1354
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Res DEC + GB PMC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Monday, October 03, 2016

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BV16065 - BV16084, BV16131

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.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 3:30 pm, Oct 03, 2016

PHOENIX
Environmental Laboratories, Inc.

Monday, September 26, 2016

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BV16065 - BV16084, BV16131

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.

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Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 3:30 pm, Oct 03, 2016

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:20
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16065

Project ID: ANOCOIL
Client ID: 1306160915-01

TP-119A (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	09/21/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/21/16	DD	SW8270D
Acenaphthylene	340	260	ug/Kg	1	09/21/16	DD	SW8270D
Anthracene	270	260	ug/Kg	1	09/21/16	DD	SW8270D
Benz(a)anthracene	900	260	ug/Kg	1	09/21/16	DD	SW8270D
Benzo(a)pyrene	1000	260	ug/Kg	1	09/21/16	DD	SW8270D
Benzo(b)fluoranthene	850	260	ug/Kg	1	09/21/16	DD	SW8270D
Benzo(ghi)perylene	610	260	ug/Kg	1	09/21/16	DD	SW8270D
Benzo(k)fluoranthene	920	260	ug/Kg	1	09/21/16	DD	SW8270D
Chrysene	1000	260	ug/Kg	1	09/21/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/21/16	DD	SW8270D
Fluoranthene	1800	260	ug/Kg	1	09/21/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	09/21/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	680	260	ug/Kg	1	09/21/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/21/16	DD	SW8270D
Phenanthrene	920	260	ug/Kg	1	09/21/16	DD	SW8270D
Pyrene	1600	260	ug/Kg	1	09/21/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	52		%	1	09/21/16	DD	30 - 130 %
% Nitrobenzene-d5	39		%	1	09/21/16	DD	30 - 130 %
% Terphenyl-d14	59		%	1	09/21/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-01 TP-119A (1-3')

Phoenix I.D.: BV16065

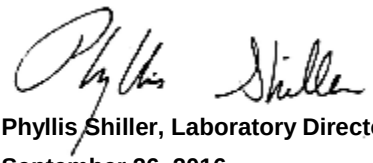
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:21
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16066

Project ID: ANOCOIL
Client ID: 1306160915-02 TP-119B (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	450	270	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	450	270	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1300	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1300	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	950	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1100	270	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	2000	270	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	270	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	1800	270	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	64		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-02

TP-119B (1-3')

Phoenix I.D.: BV16066

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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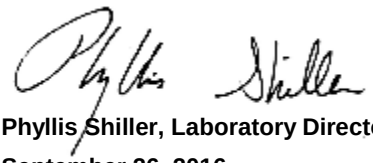

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:22
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16067

Project ID: ANOCOIL
Client ID: 1306160915-03 TP-119C (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	320	270	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	400	270	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	880	270	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1200	270	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1500	270	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	2300	270	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1000	270	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	270	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	1400	270	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	2100	270	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	64		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-03

TP-119C (1-3')

Phoenix I.D.: BV16067

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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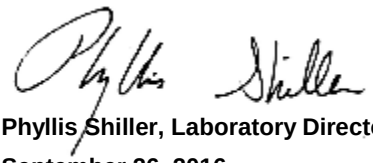

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:23
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16068

Project ID: ANOCOIL
Client ID: 1306160915-04 TP-119D (1-3')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	520	260	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	420	260	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1200	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1300	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1100	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	760	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	990	260	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1300	260	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	2200	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	990	260	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	1300	260	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	2000	260	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	73		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-04

TP-119D (1-3')

Phoenix I.D.: BV16068

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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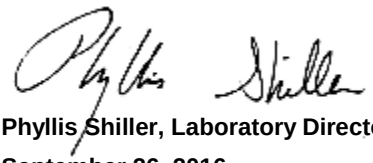

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:26
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16069

Project ID: ANOCOIL
Client ID: 1306160915-05

TP-119A (3-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	270	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	420	260	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	520	260	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1400	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1400	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1200	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	960	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1100	260	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1500	260	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	2600	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	330	260	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1200	260	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	430	260	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	1800	260	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	2300	260	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	73		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-05 TP-119A (3-4')

Phoenix I.D.: BV16069

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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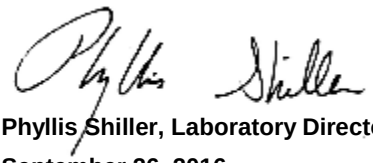

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:27
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16070

Project ID: ANOCOIL
Client ID: 1306160915-06 TP-119B (3-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	350	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	300	260	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	800	260	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1800	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1800	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1700	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	860	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1400	260	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1900	260	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	4200	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	420	260	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	260	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	320	260	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	3000	260	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	3400	260	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	56		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	81		%	1	09/22/16	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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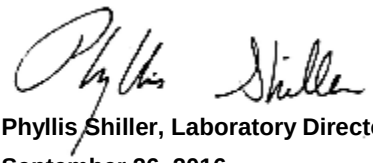

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:28
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16071

Project ID: ANOCOIL
Client ID: 1306160915-07 TP-119C (3-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	420	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	820	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	580	260	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	1600	260	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	3800	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	3500	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	3500	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	1900	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	2600	260	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	3700	260	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	540	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	7600	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	1000	260	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	2500	260	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	1000	260	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	5900	260	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	6500	260	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	73		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-07

TP-119C (3-4')

Phoenix I.D.: BV16071

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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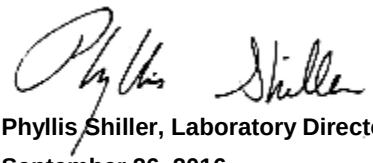

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:29
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16072

Project ID: ANOCOIL
Client ID: 1306160915-08 TP-119D (3-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	280	260	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	650	260	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	340	260	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	1500	260	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	3500	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	3300	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	3700	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	1900	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	1800	260	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	3600	260	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	350	260	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	6900	1300	ug/Kg	5	09/16/16	DD	SW8270D
Fluorene	750	260	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	2200	260	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	750	260	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	5800	260	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	5700	1300	ug/Kg	5	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	80		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-08

TP-119D (3-4')

Phoenix I.D.: BV16072

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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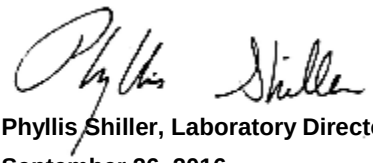

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:30
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16073

Project ID: ANOCOIL
Client ID: 1306160915-09 TP-119D (3-4') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	430	260	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	630	260	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	1900	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	1900	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	1800	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	1100	260	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	1300	260	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	1900	260	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	4500	260	ug/Kg	1	09/16/16	DD	SW8270D
Fluorene	300	260	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1300	260	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	2200	260	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	3800	260	ug/Kg	1	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	90		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-09

TP-119D (3-4') Field Duplicate

Phoenix I.D.: BV16073

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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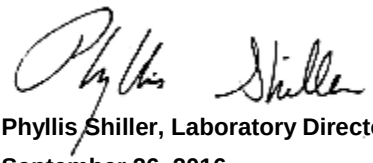

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	8:31
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16074

Project ID: ANOCOIL
Client ID: 1306160915-10

TP-119E (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	86		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	700	270	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	770	270	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	300	270	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	1100	270	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	2000	270	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	1900	270	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	1700	270	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	1100	270	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	1600	270	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	2000	270	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	340	270	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	5100	270	ug/Kg	1	09/16/16	DD	SW8270D
Fluorene	1000	270	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1400	270	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	3500	270	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	4900	270	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	4300	270	ug/Kg	1	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	56		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	83		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-10 TP-119E (4')

Phoenix I.D.: BV16074

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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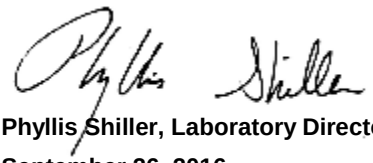

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:20
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16075

Project ID: ANOCOIL
Client ID: 1306160915-11

TP-108A (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	500	240	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	240	240	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	950	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1100	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	870	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	680	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	810	240	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1100	240	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	1500	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	800	240	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	640	240	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	1700	240	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	53		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	70		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-11 TP-108A (0.5-1.5')

Phoenix I.D.: BV16075

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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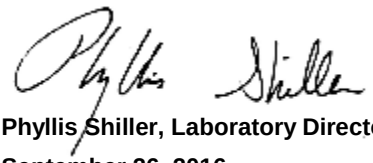

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:21
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16076

Project ID: ANOCOIL
Client ID: 1306160915-12

TP-108B (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	650	240	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	490	240	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	2000	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	2100	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1700	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	1100	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1400	240	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	2200	240	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	300	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	3600	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1300	240	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	2000	240	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	3700	240	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	70		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-12

TP-108B (0.5-1.5')

Phoenix I.D.: BV16076

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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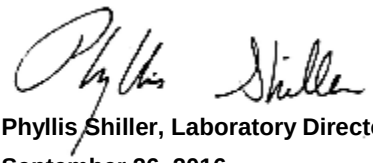

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:22
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16077

Project ID: ANOCOIL
Client ID: 1306160915-13 TP-108C (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	98		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	860	240	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	540	240	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1700	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1800	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1600	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	1000	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1400	240	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1900	240	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	280	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	3300	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1200	240	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	1900	240	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	3400	240	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	59		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	72		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-13

TP-108C (0.5-1.5')

Phoenix I.D.: BV16077

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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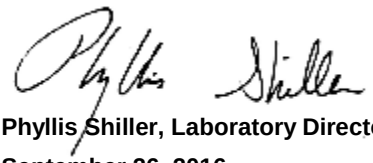

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:23
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16078

Project ID: ANOCOIL
Client ID: 1306160915-14 TP-108D (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	430	240	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	280	240	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	1400	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1600	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	1300	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	850	240	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	1100	240	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1500	240	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	2300	240	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1000	240	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	870	240	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	2300	240	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	67		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Phoenix I.D.: BV16078

Client ID: 1306160915-14 TP-108D (0.5-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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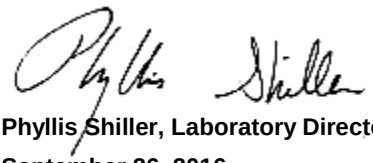

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:25
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16079

Project ID: ANOCOIL
Client ID: 1306160915-15

TP-108A (1.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	4800	ug/Kg	20	09/22/16	DD	SW8270D
Acenaphthene	ND	4800	ug/Kg	20	09/22/16	DD	SW8270D
Acenaphthylene	8600	4800	ug/Kg	20	09/22/16	DD	SW8270D
Anthracene	5100	4800	ug/Kg	20	09/22/16	DD	SW8270D
Benz(a)anthracene	16000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Benzo(a)pyrene	16000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	12000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Benzo(ghi)perylene	8700	4800	ug/Kg	20	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	13000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Chrysene	20000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	4800	ug/Kg	20	09/22/16	DD	SW8270D
Fluoranthene	27000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Fluorene	ND	4800	ug/Kg	20	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	9400	4800	ug/Kg	20	09/22/16	DD	SW8270D
Naphthalene	ND	4800	ug/Kg	20	09/22/16	DD	SW8270D
Phenanthrene	22000	4800	ug/Kg	20	09/22/16	DD	SW8270D
Pyrene	32000	4800	ug/Kg	20	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	20	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	20	09/22/16	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	20	09/22/16	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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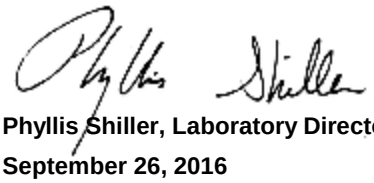

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:26
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16080

Project ID: ANOCOIL
Client ID: 1306160915-16 TP-108B (1.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	ND	260	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	74		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-16

TP-108B (1.5-2.5')

Phoenix I.D.: BV16080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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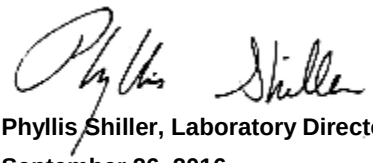

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:27
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16081

Project ID: ANOCOIL
Client ID: 1306160915-17 TP-108C (1.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		09/21/16	W	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/21/16	NJ/CKV	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	09/22/16	DD	SW8270D
Acenaphthylene	490	250	ug/Kg	1	09/22/16	DD	SW8270D
Anthracene	290	250	ug/Kg	1	09/22/16	DD	SW8270D
Benz(a)anthracene	990	250	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(a)pyrene	1000	250	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(b)fluoranthene	960	250	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(ghi)perylene	620	250	ug/Kg	1	09/22/16	DD	SW8270D
Benzo(k)fluoranthene	900	250	ug/Kg	1	09/22/16	DD	SW8270D
Chrysene	1300	250	ug/Kg	1	09/22/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	09/22/16	DD	SW8270D
Fluoranthene	1900	250	ug/Kg	1	09/22/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	09/22/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	610	250	ug/Kg	1	09/22/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	09/22/16	DD	SW8270D
Phenanthrene	910	250	ug/Kg	1	09/22/16	DD	SW8270D
Pyrene	2000	250	ug/Kg	1	09/22/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	09/22/16	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	09/22/16	DD	30 - 130 %
% Terphenyl-d14	74		%	1	09/22/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-17 TP-108C (1.5-2.5')

Phoenix I.D.: BV16081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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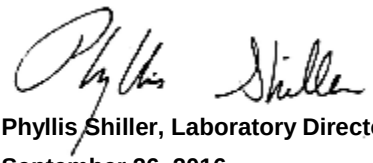

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:28
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16082

Project ID: ANOCOIL
Client ID: 1306160915-18 TP-108D (1.5-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	97		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	2400	ug/Kg	10	09/16/16	DD	SW8270D
Acenaphthene	ND	2400	ug/Kg	10	09/16/16	DD	SW8270D
Acenaphthylene	6000	2400	ug/Kg	10	09/16/16	DD	SW8270D
Anthracene	2700	2400	ug/Kg	10	09/16/16	DD	SW8270D
Benz(a)anthracene	9800	2400	ug/Kg	10	09/16/16	DD	SW8270D
Benzo(a)pyrene	9600	2400	ug/Kg	10	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	6900	2400	ug/Kg	10	09/16/16	DD	SW8270D
Benzo(ghi)perylene	4900	2400	ug/Kg	10	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	7500	2400	ug/Kg	10	09/16/16	DD	SW8270D
Chrysene	12000	2400	ug/Kg	10	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	2400	ug/Kg	10	09/16/16	DD	SW8270D
Fluoranthene	14000	2400	ug/Kg	10	09/16/16	DD	SW8270D
Fluorene	ND	2400	ug/Kg	10	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	4600	2400	ug/Kg	10	09/16/16	DD	SW8270D
Naphthalene	ND	2400	ug/Kg	10	09/16/16	DD	SW8270D
Phenanthrene	9200	2400	ug/Kg	10	09/16/16	DD	SW8270D
Pyrene	18000	2400	ug/Kg	10	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	09/16/16	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	09/16/16	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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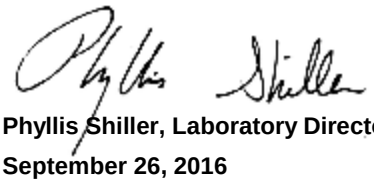

Phyllis Shiller, Laboratory Director
September 26, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	9:30
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16083

Project ID: ANOCOIL
Client ID: 1306160915-19 TP-108E (4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	95		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	1400	240	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	950	240	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	3600	240	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	3600	240	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	3400	240	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	1700	240	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	2500	240	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	4100	240	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	380	240	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	5400	240	ug/Kg	1	09/16/16	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1900	240	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	3000	240	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	6100	240	ug/Kg	1	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	61		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	69		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-19

TP-108E (4')

Phoenix I.D.: BV16083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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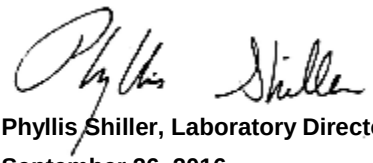

Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	10:05
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16084

Project ID: ANOCOIL
Client ID: 1306160915-20

TP-136 (0.5-4')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Client MS/MSD	Completed				09/16/16		
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	440	250	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	910	250	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	2100	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	1700	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	1400	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	930	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	1600	250	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	2100	250	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	320	250	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	4100	250	ug/Kg	1	09/16/16	DD	SW8270D
Fluorene	420	250	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1100	250	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	360	250	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	3600	250	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	3500	250	ug/Kg	1	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	80		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-20

TP-136 (0.5-4')

Phoenix I.D.: BV16084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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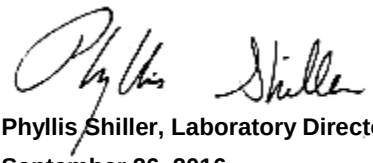


Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		09/15/16	10:10
Location Code:	F&O	Received by:	B	09/15/16	16:34
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV16065
Phoenix ID: BV16131

Project ID: ANOCOIL
Client ID: 1306160915-21 TP-136 (7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	89		%		09/15/16	I	SW846-%Solid
Soil Extraction SVOA PAH	Completed				09/15/16	BJ/V	SW3545A
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Acenaphthylene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Anthracene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Benz(a)anthracene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(a)pyrene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(b)fluoranthene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(ghi)perylene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Benzo(k)fluoranthene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Chrysene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Fluoranthene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Fluorene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Naphthalene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Phenanthrene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
Pyrene	ND	250	ug/Kg	1	09/16/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	09/16/16	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	09/16/16	DD	30 - 130 %
% Terphenyl-d14	76		%	1	09/16/16	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1306160915-21

TP-136 (7')

Phoenix I.D.: BV16131

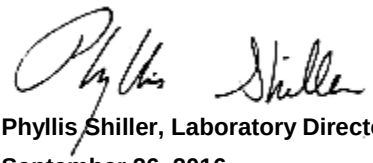
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director

September 26, 2016

Reviewed and Released by: Ethan Lee, 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

September 26, 2016

QA/QC Data

SDG I.D.: GBV16065

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 359712 (ug/kg), QC Sample No: BV16065 (BV16065, BV16066, BV16067, BV16068, BV16069, BV16070, BV16071, BV16075, BV16076, BV16077, BV16078, BV16079)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	67	66	1.5	67	70	4.4	30 - 130	30	
Acenaphthene	ND	230	71	71	0.0	73	71	2.8	30 - 130	30	
Acenaphthylene	ND	230	69	69	0.0	66	70	5.9	30 - 130	30	
Anthracene	ND	230	74	75	1.3	70	72	2.8	30 - 130	30	
Benz(a)anthracene	ND	230	75	71	5.5	82	76	7.6	30 - 130	30	
Benzo(a)pyrene	ND	230	68	69	1.5	72	67	7.2	30 - 130	30	
Benzo(b)fluoranthene	ND	230	74	75	1.3	77	73	5.3	30 - 130	30	
Benzo(ghi)perylene	ND	230	69	69	0.0	66	62	6.3	30 - 130	30	
Benzo(k)fluoranthene	ND	230	78	75	3.9	74	74	0.0	30 - 130	30	
Chrysene	ND	230	80	76	5.1	84	79	6.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	63	65	3.1	65	66	1.5	30 - 130	30	
Fluoranthene	ND	230	75	76	1.3	101	94	7.2	30 - 130	30	
Fluorene	ND	230	74	71	4.1	74	77	4.0	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	62	62	0.0	66	66	0.0	30 - 130	30	
Naphthalene	ND	230	64	64	0.0	63	69	9.1	30 - 130	30	
Phenanthrene	ND	230	75	71	5.5	88	78	12.0	30 - 130	30	
Pyrene	ND	230	81	78	3.8	101	96	5.1	30 - 130	30	
% 2-Fluorobiphenyl	68	%	67	67	0.0	63	66	4.7	30 - 130	30	
% Nitrobenzene-d5	61	%	66	65	1.5	60	65	8.0	30 - 130	30	
% Terphenyl-d14	74	%	78	77	1.3	73	78	6.6	30 - 130	30	
QA/QC Batch 358979 (ug/kg), QC Sample No: BV16084 (BV16072, BV16073, BV16074, BV16082, BV16083, BV16084, BV16131)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230	62	70	12.1	75	69	8.3	30 - 130	30	
Acenaphthene	ND	230	67	74	9.9	72	68	5.7	30 - 130	30	
Acenaphthylene	ND	230	64	70	9.0	75	75	0.0	30 - 130	30	
Anthracene	ND	230	70	74	5.6	63	59	6.6	30 - 130	30	
Benz(a)anthracene	ND	230	68	76	11.1	49	52	5.9	30 - 130	30	
Benzo(a)pyrene	ND	230	66	73	10.1	57	66	14.6	30 - 130	30	
Benzo(b)fluoranthene	ND	230	66	76	14.1	67	79	16.4	30 - 130	30	
Benzo(ghi)perylene	ND	230	69	76	9.7	64	69	7.5	30 - 130	30	
Benzo(k)fluoranthene	ND	230	73	75	2.7	61	64	4.8	30 - 130	30	
Chrysene	ND	230	72	78	8.0	55	60	8.7	30 - 130	30	
Dibenz(a,h)anthracene	ND	230	70	77	9.5	75	80	6.5	30 - 130	30	
Fluoranthene	ND	230	69	76	9.7	19	14	30.3	30 - 130	30	m
Fluorene	ND	230	67	73	8.6	73	68	7.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	69	76	9.7	64	69	7.5	30 - 130	30	
Naphthalene	ND	230	62	70	12.1	70	63	10.5	30 - 130	30	
Phenanthrene	ND	230	69	75	8.3	19	<10	NC	30 - 130	30	m
Pyrene	ND	230	70	78	10.8	28	33	16.4	30 - 130	30	m
% 2-Fluorobiphenyl	62	%	61	68	10.9	75	70	6.9	30 - 130	30	

QA/QC Data

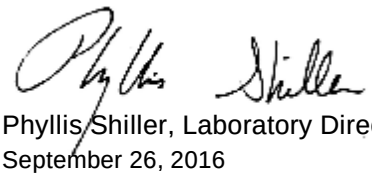
SDG I.D.: GBV16065

Parameter	Blank	Blk RL		LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
% Nitrobenzene-d5	59	%		57	65	13.1	72	65	10.2	30 - 130	30
% Terphenyl-d14	72	%		66	74	11.4	79	77	2.6	30 - 130	30
QA/QC Batch 359651 (ug/kg), QC Sample No: BV19405 (BV16080, BV16081)											
Polynuclear Aromatic HC - Soil											
2-Methylnaphthalene	ND	230		60	66	9.5	77	76	1.3	30 - 130	30
Acenaphthene	ND	230		60	68	12.5	73	75	2.7	30 - 130	30
Acenaphthylene	ND	230		57	65	13.1	68	72	5.7	30 - 130	30
Anthracene	ND	230		61	70	13.7	71	73	2.8	30 - 130	30
Benz(a)anthracene	ND	230		62	72	14.9	72	74	2.7	30 - 130	30
Benzo(a)pyrene	ND	230		62	72	14.9	72	74	2.7	30 - 130	30
Benzo(b)fluoranthene	ND	230		66	76	14.1	71	79	10.7	30 - 130	30
Benzo(ghi)perylene	ND	230		67	77	13.9	76	79	3.9	30 - 130	30
Benzo(k)fluoranthene	ND	230		60	69	14.0	69	70	1.4	30 - 130	30
Chrysene	ND	230		64	73	13.1	74	77	4.0	30 - 130	30
Dibenz(a,h)anthracene	ND	230		69	79	13.5	80	83	3.7	30 - 130	30
Fluoranthene	ND	230		61	72	16.5	71	74	4.1	30 - 130	30
Fluorene	ND	230		61	70	13.7	70	74	5.6	30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230		73	83	12.8	85	88	3.5	30 - 130	30
Naphthalene	ND	230		56	61	8.5	71	73	2.8	30 - 130	30
Phenanthrene	ND	230		62	70	12.1	72	74	2.7	30 - 130	30
Pyrene	ND	230		63	74	16.1	74	76	2.7	30 - 130	30
% 2-Fluorobiphenyl	64	%		56	63	11.8	67	69	2.9	30 - 130	30
% Nitrobenzene-d5	59	%		50	55	9.5	58	62	6.7	30 - 130	30
% Terphenyl-d14	82	%		62	72	14.9	71	72	1.4	30 - 130	30

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
September 26, 2016

Sample Criteria Exceedences Report

GBV16065 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BV16066	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1300	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1300	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	270	1000	1000	ug/Kg
BV16066	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1200	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	270	1000	1000	ug/Kg
BV16067	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	270	1000	1000	ug/Kg
BV16068	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	260	1000	1000	ug/Kg
BV16068	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1200	260	1000	1000	ug/Kg
BV16068	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1300	260	1000	1000	ug/Kg
BV16068	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	260	1000	1000	ug/Kg
BV16068	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	260	1000	1000	ug/Kg
BV16068	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1200	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	260	1000	1000	ug/Kg
BV16069	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1200	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1800	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	260	1000	1000	ug/Kg
BV16070	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1800	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3500	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3800	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3500	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2600	260	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBV16065 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BV16071	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3500	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3800	260	1000	1000	ug/Kg
BV16071	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3500	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3700	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3300	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3500	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3700	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3500	260	1000	1000	ug/Kg
BV16072	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3300	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1900	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1900	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1300	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1900	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1900	260	1000	1000	ug/Kg
BV16073	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1800	260	1000	1000	ug/Kg
BV16074	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2000	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1900	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1600	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1900	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	270	1000	1000	ug/Kg
BV16074	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	270	1000	1000	ug/Kg
BV16075	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	240	1000	1000	ug/Kg
BV16075	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1100	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2000	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2100	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	240	1000	1000	ug/Kg
BV16076	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2000	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1600	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1800	240	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBV16065 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BV16077	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1800	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	240	1000	1000	ug/Kg
BV16077	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1100	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1600	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1300	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1600	240	1000	1000	ug/Kg
BV16078	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1300	240	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	13000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	12000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	16000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	16000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	16000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	12000	4800	1000	1000	ug/Kg
BV16079	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	13000	4800	8400	8400	ug/Kg
BV16079	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	16000	4800	1000	1000	ug/Kg
BV16082	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	7500	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	9800	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	9600	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	6900	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	9800	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	9600	2400	1000	1000	ug/Kg
BV16082	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	6900	2400	1000	1000	ug/Kg
BV16083	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2500	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3400	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3600	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	3600	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3600	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3400	240	1000	1000	ug/Kg
BV16083	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	3600	240	1000	1000	ug/Kg
BV16084	$8100SMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1600	250	1000	1000	ug/Kg
BV16084	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	2100	250	1000	1000	ug/Kg
BV16084	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1700	250	1000	1000	ug/Kg
BV16084	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GB PMC (mg/kg	1400	250	1000	1000	ug/Kg
BV16084	$8100SMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	2100	250	1000	1000	ug/Kg
BV16084	$8100SMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1700	250	1000	1000	ug/Kg

Sample Criteria Exceedences Report

GBV16065 - FO

Criteria: CT: GBM, RC

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BV16084	$8100SMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / RES DEC (mg/k	1400	250	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:*** Fuss & O'Neill, Inc.

Project Location: ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BV16065-BV16084, BV16131 ***Sampling Date(s):*** 9/15/2016

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: PAH Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Monday, September 26, 2016

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 03, 2016

SDG I.D.: GBV16065

SDG Comments

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

PAH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 358979 (Samples: BV16072, BV16073, BV16074, BV16082, BV16083, BV16084, BV16131): -----

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. (Fluoranthene, Phenanthrene, Pyrene)

Instrument:

CHEM05 09/15/16-1 Damien Drobinski, Chemist 09/15/16

Initial Calibration Verification (CHEM05/BN_0912):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0915_04-BN_0912):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM06 09/15/16-1 Damien Drobinski, Chemist 09/15/16

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_0912):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0915_04-BN_0912):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM06 09/21/16-1 Damien Drobinski, Chemist 09/21/16

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 03, 2016

SDG I.D.: GBV16065

PAH Narration

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_0921):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0921_12-BN_0921):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM12 09/16/16-1 Damien Drobinski, Chemist 09/16/16

BV16072

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_0914):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM12/0916_02-SV_0914):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM12 09/21/16-1 Damien Drobinski, Chemist 09/21/16

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_0914):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM12/0921_04A-BN_0914):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 03, 2016

SDG I.D.: GBV16065

PAH Narration

100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 09/21/16-1 Damien Drobinski, Chemist 09/21/16

BV16066, BV16067

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_0830):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0921_04-SV_0830):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM25 09/22/16-1 Damien Drobinski, Chemist 09/22/16

BV16079

Initial Calibration Verification (CHEM25/SV_0907):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0922_02-SV_0907):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 09/16/16-1 Damien Drobinski, Chemist 09/16/16

BV16082

Initial Calibration Verification (CHEM27/SV_0906):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0916_02-SV_0906):

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 03, 2016

SDG I.D.: GBV16065

PAH Narration

Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 359651 (BV19405)

BV16080, BV16081

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.

QC (Site Specific):

Batch 358979 (BV16084)

BV16072, BV16073, BV16074, BV16082, BV16083, BV16084, BV16131

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(19%), Phenanthrene(19%), Pyrene(28%)
All MSD recoveries were within 30 - 130 with the following exceptions: Fluoranthene(14%), Phenanthrene(<10%)
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.

Batch 359712 (BV16065)

BV16065, BV16066, BV16067, BV16068, BV16069, BV16070, BV16071, BV16075, BV16076, BV16077, BV16078, BV16079

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.

Temperature Narration

The samples in this delivery group were received at 2°C.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

2 w/ cTp

CHAIN-OF-CUSTODY RECORD 35745

Turnaround
☐ 24-Hour* ☒ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☐ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	2001454.P60	Phoenix

REPORT TO: Kevin van der Veer, FTD
INVOICE TO:
P.O. NO.:
Sampler's Signature: Mike Mertz Date: 9/15/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PAHs	HOLD	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (___) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					130616091 5-01	S	9/15/16	0820		X			1									160665
02					-02			0821														160666
03					-03			0822														160667
04					-04			0823														160668
05					-05			0824														160669
06					-06			0827														160670
07					-07			0828														160671
08					-08			0829	X													160672
09					-09			0830													160673	No Charge
10					-10			0831														160674

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Mike Mertz	Paradise	9/15/16	1634
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Res. DEC, GB PMC
Additional Comments:

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X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

29/CTP

CHAIN-OF-CUSTODY RECORD 35744

Turnaround
☐ 24-Hour* X 72-Hour* ☐ Other ____ (days)
☐ 48-Hour* ☐ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014S4.P60	Phoenix

REPORT TO: Kevin vander Veer, FTO
INVOICE TO:
P.O. NO.:
Sampler's Signature: Michelle Mertz Date: 9/15/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PAHs	HOLD	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $NaSO_4$	Glass Soil Container (8) oz	Other: G402	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
11					130616095-11	S	9/15/16	0920		X				1								16075
12					-12			0921														16076
13					-13			0922														16077
14					-14			0923														16078
15					-15			0925														16079
16					-16			0926														16080
17					-17			0927														16081
18					-18			0928	X													16082
19					-19			0930														16083
20					-20			1005						3			160841					MS/MSD
21					-21			1010									161311					

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Michelle Mertz	CParadise	9/15/16	1634
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
Res. DEC, GB PMC
Additional Comments:

Bobbi Aloisa

From: Kevin Vanderveer <KVanderveer@fando.com>
Sent: Wednesday, September 21, 2016 11:15 AM
To: Bobbi Aloisa
Subject: Anocoil - Add-Ons for PAHs

Bobbi,

Would you please run the following samples for PAHs, standard turnaround (this should be all of the samples on hold from this delivery group):

Phoenix Id	Client Id
BV16065	1306160915-01
BV16066	1306160915-02
BV16067	1306160915-03
BV16068	1306160915-04
BV16069	1306160915-05
BV16070	1306160915-06
BV16071	1306160915-07
BV16075	1306160915-11
BV16076	1306160915-12
BV16077	1306160915-13
BV16078	1306160915-14
BV16079	1306160915-15
BV16080	1306160915-16
BV16081	1306160915-17

Kevin L. Vanderveer
Senior Hydrogeologist
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5521 | kvanderveer@fando.com
www.fando.com | twitter | facebook | linkedin
This e-mail message and any files transmitted with it are the exclusive intellectual property of Fuss & O'Neill. This message and any attached files may be privileged and confidential. If you have received this message in error, please delete this e-mail and attached files and immediately notify Fuss & O'Neill by sending a reply e-mail to the sender of this message. Thank you.

Friday, February 09, 2018

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BZ84846 - BZ84848

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 09, 2018

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/06/18	8:00
Location Code:	F&O	Received by:	SW	02/06/18	9:51
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P80				

Laboratory Data

SDG ID: GBZ84846
Phoenix ID: BZ84846

Project ID: FORMER ANOCOIL
Client ID: 1358180206-01

Trip Blank- low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	02/07/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	02/07/18	JLI	70 - 130 %
% Bromofluorobenzene	100		%	1	02/07/18	JLI	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358180206-01 Trip Blank- low

Phoenix I.D.: BZ84846

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	107		%	1	02/07/18	JLI	70 - 130 %
% Toluene-d8	92		%	1	02/07/18	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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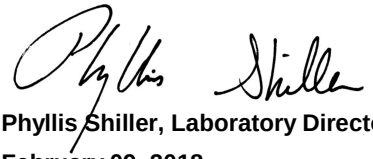

Phyllis Shiller, Laboratory Director
February 09, 2018
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

February 09, 2018

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/06/18	8:05
Location Code:	F&O	Received by:	SW	02/06/18	9:51
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P80				

Laboratory Data

SDG ID: GBZ84846
Phoenix ID: BZ84847

Project ID: FORMER ANOCOIL
Client ID: 1358180206-02 Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Benzene	ND	200	ug/Kg	50	02/07/18	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Styrene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Toluene	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	02/07/18	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	50	02/07/18	JLI	70 - 130 %
% Bromofluorobenzene	99		%	50	02/07/18	JLI	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358180206-02

Trip Blank - high

Phoenix I.D.: BZ84847

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	100		%	50	02/07/18	JLI	70 - 130 %
% Toluene-d8	91		%	50	02/07/18	JLI	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

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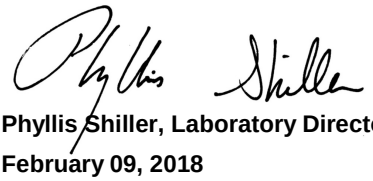

Phyllis Shiller, Laboratory Director
February 09, 2018
Reviewed and Released by: Ethan Lee, Project Manager

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Analysis Report

February 09, 2018

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		02/06/18	8:20
Location Code:	F&O	Received by:	SW	02/06/18	9:51
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P80				

Laboratory Data

SDG ID: GBZ84846
Phoenix ID: BZ84848

Project ID: FORMER ANOCOIL
Client ID: 1358180206-03

SB-76 (1.25-2.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	96		%		02/06/18	AP	SW846-%Solid
pH at 25C - Soil	7.08	1.00	pH Units	1	02/06/18 18:29	O	SW9045
Soil Extraction SVOA PAH	Completed				02/06/18	AA/CKV	SW3545A
Extraction of CT ETPH	Completed				02/06/18	BA/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	51	mg/Kg	1	02/07/18	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	02/07/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	94		%	1	02/07/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,2-Dichlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,3-Dichlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
1,4-Dichlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Benzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Chlorobenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Ethylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Isopropylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
m&p-Xylene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Naphthalene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
n-Butylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
n-Propylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358180206-03

SB-76 (1.25-2.5')

Phoenix I.D.: BZ84848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
o-Xylene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
p-Isopropyltoluene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
sec-Butylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Styrene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
tert-Butylbenzene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Toluene	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
Total Xylenes	ND	3.5	ug/Kg	1	02/07/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	02/07/18	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	02/07/18	HM	70 - 130 %
% Dibromofluoromethane	102		%	1	02/07/18	HM	70 - 130 %
% Toluene-d8	91		%	1	02/07/18	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Acenaphthene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Acenaphthylene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Anthracene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Benz(a)anthracene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Benzo(a)pyrene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Benzo(b)fluoranthene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Benzo(ghi)perylene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Benzo(k)fluoranthene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Chrysene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Dibenz(a,h)anthracene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Fluoranthene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Fluorene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Naphthalene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Phenanthrene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
Pyrene	ND	240	ug/Kg	1	02/06/18	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	02/06/18	DD	30 - 130 %
% Nitrobenzene-d5	67		%	1	02/06/18	DD	30 - 130 %
% Terphenyl-d14	91		%	1	02/06/18	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358180206-03

SB-76 (1.25-2.5')

Phoenix I.D.: BZ84848

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

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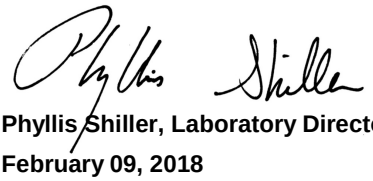

Phyllis Shiller, Laboratory Director
February 09, 2018
Reviewed and Released by: Ethan Lee, Project Manager

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Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

February 09, 2018

QA/QC Data

SDG I.D.: GBZ84846

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 418973 (PH), QC Sample No: BZ84848 (BZ84848)													
pH at 25C - Soil			7.08	7.08	0	100						85 - 115	20

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QA/QC Report

February 09, 2018

QA/QC Data

SDG I.D.: GBZ84846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 418891 (mg/Kg), QC Sample No: BZ84848 (BZ84848)										
TPH by GC (Extractable Products) - Soil										
Ext. Petroleum H.C. (C9-C36)	ND	50	92	100	8.3	99	97	2.0	60 - 120	30
% n-Pentacosane	69	%	87	89	2.3	87	90	3.4	50 - 150	30
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 419020 (ug/kg), QC Sample No: BZ84848 (BZ84848)										
Volatiles - Soil										
1,2,3-Trichlorobenzene	ND	5.0	93	91	2.2	82	76	7.6	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	89	86	3.4	77	71	8.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	96	96	0.0	90	86	4.5	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	93	94	1.1	87	82	5.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	97	97	0.0	92	88	4.4	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	90	90	0.0	83	79	4.9	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	88	88	0.0	81	76	6.4	70 - 130	30
Benzene	ND	1.0	98	100	2.0	94	91	3.2	70 - 130	30
Chlorobenzene	ND	5.0	92	94	2.2	89	85	4.6	70 - 130	30
Ethylbenzene	ND	1.0	96	97	1.0	94	87	7.7	70 - 130	30
Isopropylbenzene	ND	1.0	100	103	3.0	95	92	3.2	70 - 130	30
m&p-Xylene	ND	2.0	92	93	1.1	89	86	3.4	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	100	101	1.0	97	92	5.3	70 - 130	30
Naphthalene	ND	5.0	103	106	2.9	92	87	5.6	70 - 130	30
n-Butylbenzene	ND	1.0	96	97	1.0	89	84	5.8	70 - 130	30
n-Propylbenzene	ND	1.0	97	99	2.0	91	87	4.5	70 - 130	30
o-Xylene	ND	2.0	98	99	1.0	96	91	5.3	70 - 130	30
p-Isopropyltoluene	ND	1.0	98	100	2.0	93	89	4.4	70 - 130	30
sec-Butylbenzene	ND	1.0	99	99	0.0	95	91	4.3	70 - 130	30
Styrene	ND	5.0	95	96	1.0	90	86	4.5	70 - 130	30
tert-Butylbenzene	ND	1.0	101	101	0.0	96	93	3.2	70 - 130	30
Toluene	ND	1.0	101	102	1.0	97	94	3.1	70 - 130	30
% 1,2-dichlorobenzene-d4	96	%	104	105	1.0	104	105	1.0	70 - 130	30
% Bromofluorobenzene	100	%	99	99	0.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	103	%	99	103	4.0	102	98	4.0	70 - 130	30
% Toluene-d8	91	%	105	104	1.0	105	104	1.0	70 - 130	30
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 418925 (ug/kg), QC Sample No: BZ84848 (BZ84848)										
Polynuclear Aromatic HC - Soil										
2-Methylnaphthalene	ND	230	66	61	7.9	63			30 - 130	30
Acenaphthene	ND	230	79	76	3.9	73			30 - 130	30
Acenaphthylene	ND	230	74	73	1.4	69			30 - 130	30

QA/QC Data

SDG I.D.: GBZ84846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Anthracene	ND	230	79	75	5.2	74			30 - 130	30
Benz(a)anthracene	ND	230	78	76	2.6	75			30 - 130	30
Benzo(a)pyrene	ND	230	77	75	2.6	74			30 - 130	30
Benzo(b)fluoranthene	ND	230	82	78	5.0	78			30 - 130	30
Benzo(ghi)perylene	ND	230	73	70	4.2	69			30 - 130	30
Benzo(k)fluoranthene	ND	230	76	74	2.7	72			30 - 130	30
Chrysene	ND	230	82	78	5.0	79			30 - 130	30
Dibenz(a,h)anthracene	ND	230	76	73	4.0	73			30 - 130	30
Fluoranthene	ND	230	82	79	3.7	77			30 - 130	30
Fluorene	ND	230	76	75	1.3	71			30 - 130	30
Indeno(1,2,3-cd)pyrene	ND	230	78	74	5.3	73			30 - 130	30
Naphthalene	ND	230	63	59	6.6	60			30 - 130	30
Phenanthrene	ND	230	74	72	2.7	70			30 - 130	30
Pyrene	ND	230	83	79	4.9	78			30 - 130	30
% 2-Fluorobiphenyl	44	%	73	71	2.8	68			30 - 130	30
% Nitrobenzene-d5	39	%	67	63	6.2	67			30 - 130	30
% Terphenyl-d14	53	%	89	83	7.0	83			30 - 130	30

Comment:

MSD not reported for this batch.

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 419185 (ug/kg), QC Sample No: BZ85697 (BZ84846, BZ84847 (50X))

Volatiles - Soil

1,2,3-Trichlorobenzene	ND	5.0	103	101	2.0	104	99	4.9	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	104	100	3.9	99	96	3.1	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	103	102	1.0	107	104	2.8	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	100	99	1.0	104	102	1.9	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	101	2.0	108	105	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	98	96	2.1	101	97	4.0	70 - 130	30
1,4-Dichlorobenzene	ND	5.0	97	95	2.1	99	97	2.0	70 - 130	30
Benzene	ND	1.0	100	100	0.0	109	105	3.7	70 - 130	30
Chlorobenzene	ND	5.0	99	97	2.0	105	101	3.9	70 - 130	30
Ethylbenzene	ND	1.0	102	100	2.0	107	105	1.9	70 - 130	30
Isopropylbenzene	ND	1.0	104	103	1.0	111	108	2.7	70 - 130	30
m&p-Xylene	ND	2.0	99	97	2.0	103	100	3.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	102	102	0.0	105	103	1.9	70 - 130	30
Naphthalene	ND	5.0	107	104	2.8	114	110	3.6	70 - 130	30
n-Butylbenzene	ND	1.0	108	105	2.8	110	106	3.7	70 - 130	30
n-Propylbenzene	ND	1.0	104	102	1.9	108	107	0.9	70 - 130	30
o-Xylene	ND	2.0	102	101	1.0	108	105	2.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	107	106	0.9	111	108	2.7	70 - 130	30
sec-Butylbenzene	ND	1.0	105	104	1.0	111	108	2.7	70 - 130	30
Styrene	ND	5.0	100	99	1.0	104	102	1.9	70 - 130	30
tert-Butylbenzene	ND	1.0	104	102	1.9	112	109	2.7	70 - 130	30
Toluene	ND	1.0	104	104	0.0	115	110	4.4	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	105	105	0.0	105	105	0.0	70 - 130	30
% Bromofluorobenzene	99	%	99	100	1.0	98	98	0.0	70 - 130	30
% Dibromofluoromethane	102	%	99	99	0.0	98	102	4.0	70 - 130	30
% Toluene-d8	91	%	104	105	1.0	105	104	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Data

SDG I.D.: GBZ84846

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
February 09, 2018

Friday, February 09, 2018

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GBZ84846 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BZ84846-BZ84848 ***Sampling Date(s):*** 2/6/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: _____ **Position:** Assistant Lab Director

Printed Name: Greg Lawrence **Date:** Friday, February 09, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

February 09, 2018

SDG I.D.: GBZ84846

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 02/07/18-1 Jeff Bucko, Chemist 02/07/18

BZ84848

The initial calibration (ETPH116I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 418891 (BZ84848)

BZ84848

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM28 02/06/18-1 Damien Drobinski, Chemist 02/06/18

BZ84848

Initial Calibration Verification (CHEM28/BN_0129):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM28/0206_04-BN_0129):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

February 09, 2018

SDG I.D.: GBZ84846

SVOA Narration

The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 418925 (BZ84848)

BZ84848

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.
MSD not reported for this batch.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM18 02/06/18-2 Harry Mullin, Chemist 02/06/18

BZ84848

Initial Calibration Verification (CHEM18/VT-M0129):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0206M35-VT-M0129):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM18 02/07/18-1 Jane Li, Chemist 02/07/18

BZ84846, BZ84847

Initial Calibration Verification (CHEM18/VT-M0129):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM18/0207M04-VT-M0129):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

February 09, 2018

SDG I.D.: GBZ84846

VOA Narration

The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 419185 (BZ85697)

BZ84846, BZ84847

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 419020 (BZ84848)

BZ84848

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.0C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

30WC10

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 38675

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☑ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER ANGLOIL	VERNON, CT	20061454.P80	PHOENIX

REPORT TO: KEVIN VANDERVEER, FTO
INVOICE TO: ↓
~~P.O. NO.~~:
Sampler's Signature: Date: 2/6/18

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other T. Blank

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: Aromatic VOCs	EtOH	PAHs	pH	HOLD	Containers: Soil VOA Vial, ☒ Methanol	Soil VOA Vial, ☒ Water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1358180206-01	X	2/6/18	0800	X						2										84846
02					-02	X	↓	0805	X					1											84847
03					-03	S		0820	X	X	X			1	2	1									84848
04					-04	S		0830	~~X~~	~~X~~			X	1	2	1									84849
05					-05	S	↓	0840	~~X~~	~~X~~			X	1	2	1				84850					nocharge
									(8)																

Transfer Number	Relinquished By	Accepted By	Date	Time
1		TRAUM	2/6/18	9:17
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 2 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
RES DEC, GB PAL
Additional Comments:
(8) HOLD -04, -05 for potential analysis

PHOENIX
Environmental Laboratories, Inc.

Tuesday, August 08, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BY75415 - BY75421

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

REVIEWED **DMS**
By pbibeau at 6:57 am, Aug 09, 2017

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

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	9:30
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75415

Project ID: FORMER ANOCOIL
Client ID: 1358170731-01 A07-01 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	87		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	08/01/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	380	ug/Kg	1	08/01/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	9:35
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75416

Project ID: FORMER ANOCOIL
Client ID: 1358170731-02

A07-01 (5-7') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	85		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	57	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	08/01/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	380	ug/Kg	1	08/01/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 2

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	9:40
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75417

Project ID: FORMER ANOCOIL
Client ID: 1358170731-03 A07-02 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	63	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	08/01/17	JRB	50 - 150 %
Client MS/MSD	Completed				08/01/17		
2-Methylnaphthalene	ND	430	ug/Kg	1	07/31/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 2

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	11:55
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75418

Project ID: FORMER ANOCOIL
Client ID: 1358170731-04 A07-03 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	83		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	420	300	mg/Kg	5	08/02/17	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	08/02/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	5	08/02/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	400	ug/Kg	1	08/01/17	DD	SW8270D

Project ID: FORMER ANOCOIL
Client ID: 1358170731-04

A07-03 (5-7')

Phoenix I.D.: BY75418

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	12:00
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75419

Project ID: FORMER ANOCOIL
Client ID: 1358170731-05 A07-04 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	92		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	54	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	08/01/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	360	ug/Kg	1	08/01/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	12:45
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75420

Project ID: FORMER ANOCOIL
Client ID: 1358170731-06

A07-05 (5-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	91		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	53	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	08/01/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	360	ug/Kg	1	08/01/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 08, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOIL	Collected by:		07/31/17	14:10
Location Code:	F&O	Received by:	SW	07/31/17	15:32
Rush Request:	48 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454R20/30				

Laboratory Data

SDG ID: GBY75415
Phoenix ID: BY75421

Project ID: FORMER ANOCOIL
Client ID: 1358170731-07 A07-06 (6-7')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	77		%		07/31/17	Q	SW846-%Solid
Soil Extraction for SVOA	Completed				07/31/17	CJ/CKV	SW3545A
Extraction of CT ETPH	Completed				07/31/17	CC/VCK	SW3545A
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	08/01/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/01/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	08/01/17	JRB	50 - 150 %
2-Methylnaphthalene	ND	430	ug/Kg	1	08/01/17	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 08, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

August 08, 2017

QA/QC Data

SDG I.D.: GBY75415

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 395863 (mg/Kg), QC Sample No: BY75417 (BY75415, BY75416, BY75417, BY75418, BY75419, BY75420, BY75421)											
TPH by GC (Extractable Products) - Soil											
Ext. Petroleum H.C. (C9-C36)	ND	50	82	64	24.7	90	90	0.0	60 - 120	30	
% n-Pentacosane	46	%	62	48	25.5	73	75	2.7	50 - 150	30	l,s
Comment: Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 395781 (ug/Kg), QC Sample No: BY75417 (BY75415, BY75416, BY75417, BY75418, BY75419, BY75420, BY75421)											
Semivolatiles - Soil											
2-Methylnaphthalene	ND	230	66	62	6.3	68	63	7.6	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%)											

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
s = This parameter is outside laboratory Blank Surrogate specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
August 08, 2017

Tuesday, August 08, 2017

Criteria: CT: GBM, RC

State: CT

Sample Criteria Exceedances Report

GBY75415 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BY75415-BY75421 ***Sampling Date(s):*** 7/31/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: ETPH Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: MTaylor **Position:** Project Manager

Printed Name: Maryam Taylor **Date:** Tuesday, August 08, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

August 08, 2017

SDG I.D.: GBY75415

SDG Comments

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only 2-Methylnaphthalene is 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 395863 (Samples: BY75415, BY75416, BY75417, BY75418, BY75419, BY75420, BY75421): -----

One or more surrogates is outside of criteria. (% n-Pentacosane)
The surrogate recovery for the blank and LCSD were outside of acceptance criteria. A sample bias is not suspected - all sample surrogate recoveries are within criteria.

Instrument:

AU-FID84 08/01/17-1 Jeff Bucko, Chemist 08/01/17

BY75415, BY75416, BY75417, BY75419, BY75420, BY75421

The initial calibration (ETPH713I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 08/02/17-1 Jeff Bucko, Chemist 08/02/17

BY75418

The initial calibration (ETPH713I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 395863 (BY75417)

BY75415, BY75416, BY75417, BY75418, BY75419, BY75420, BY75421

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: % n-Pentacosane(48%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM27 08/01/17-1 Damien Drobinski, Chemist 08/01/17

BY75418

Initial Calibration Verification (CHEM27/SPLIT_0724):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

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

August 08, 2017

SDG I.D.: GBY75415

SVOA Narration

Continuing Calibration Verification (CHEM27/0801_02-SPLIT_0724):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM29 07/31/17-1 Damien Drobinski, Chemist 07/31/17

BY75415, BY75416, BY75417, BY75419, BY75420, BY75421

Initial Calibration Verification (CHEM29/SPLIT_0718):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM29/0731_04-SPLIT_0718):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 395781 (BY75417)

BY75415, BY75416, BY75417, BY75418, BY75419, BY75420, BY75421

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Temperature Narration

The samples were received at 4.2C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

4.2°W/cf IP

CHAIN-OF-CUSTODY RECORD 38607

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
X 48-Hour* ☐ Standard (____ days) *Surcharge Applies

Project Name	Project Location	Project Number	Laboratory
Former Anacoil	Rockville CT	2001454.R20/30	Phoenix

Report To: Kevin Vandeveer F+O
Invoice To: ↓
~~P.O. No.:~~
Sampler's Signature: [signature] Date: 7/31/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	2-methylnaphthalene	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8 oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber ( ) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01		1358170731 -01	S	7/31/17	0930	X		X							1				75415
02		-02	↓	↓	0935	↓		↓							1				75416 no charge
03		-03			0940										3				75417 MS/MSD
04		-04			1155										1				75418
05		-05			1200										1				75419
06		-06			1245										1				75420
07		-07	↓	↓	1410	↓		↓							1				75421

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Maradine	7/31/17	1532
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
ResDEC GBPMC
Additional Comments:
48hr TA!

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 12, 2015

Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BJ11544 - BJ11551

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.

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

REVIEWED **DMS**
By pbibeau at 7:29 am, May 13, 2015

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

May 12, 2015

SDG I.D.: GBJ11544

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.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	9:30
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11544

Project ID: ANOCOIL
Client ID: 1218150504-01

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/06/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/06/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/06/15	MH	SW8260

Project ID: ANOCOIL Trip Blank Phoenix I.D.: BJ11544

Client ID: 1218150504-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	05/06/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/06/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/06/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/06/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	05/06/15	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	05/06/15	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	05/06/15	MH	70 - 130 %

Project ID: ANOCOIL Trip Blank Phoenix I.D.: BJ11544

Client ID: 1218150504-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	05/06/15	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED.

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Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	10:03
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11545

Project ID: ANOCOIL
Client ID: 1218150504-02

MW-06

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum	0.258	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium	0.311	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470/245.1
Nickel	0.005	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc	0.010	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7470/245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	05/08/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-02

MW-06

Phoenix I.D.: BJ11545

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/06/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/06/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/06/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/06/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/06/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/06/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-02

MW-06

Phoenix I.D.: BJ11545

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/06/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/06/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/06/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/06/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/06/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/06/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	05/06/15	MH	70 - 130 %
% Bromofluorobenzene	90		%	1	05/06/15	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	05/06/15	MH	70 - 130 %
% Toluene-d8	101		%	1	05/06/15	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	0.19	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	117		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-02

MW-06

Phoenix I.D.: BJ11545

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

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Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	12:30
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11546

Project ID: ANOCOIL MW-03
Client ID: 1218150504-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum	1.18	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic	0.007	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium	0.069	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium	0.029	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper	0.013	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470/245.1
Nickel	0.005	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead	0.006	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc	0.014	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/05/15	A	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7470/245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1.2	0.070	mg/L	1	05/06/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	05/06/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	05/06/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	2	05/06/15	MH	SW8260
1,1,1-Trichloroethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	2	05/06/15	MH	SW8260
1,1,2-Trichloroethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-03

MW-03

Phoenix I.D.: BJ11546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	2	05/06/15	MH	SW8260
1,1-Dichloropropene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2,3-Trichloropropane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2-Dibromoethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2-Dichlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,2-Dichloroethane	ND	1	ug/L	2	05/06/15	MH	SW8260
1,2-Dichloropropane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,3-Dichlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,3-Dichloropropane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
1,4-Dichlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
2,2-Dichloropropane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
2-Chlorotoluene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
2-Hexanone	ND	10	ug/L	2	05/06/15	MH	SW8260
2-Isopropyltoluene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
4-Chlorotoluene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
4-Methyl-2-pentanone	ND	10	ug/L	2	05/06/15	MH	SW8260
Acetone	ND	50	ug/L	2	05/06/15	MH	SW8260
Acrylonitrile	ND	10	ug/L	2	05/06/15	MH	SW8260
Benzene	ND	1	ug/L	2	05/06/15	MH	SW8260
Bromobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Bromochloromethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	2	05/06/15	MH	SW8260
Bromoform	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Bromomethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Carbon Disulfide	ND	10	ug/L	2	05/06/15	MH	SW8260
Carbon tetrachloride	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Chlorobenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Chloroethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Chloroform	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Chloromethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
cis-1,2-Dichloroethene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.50	ug/L	2	05/06/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	2	05/06/15	MH	SW8260
Dibromomethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Dichlorodifluoromethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Ethylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Hexachlorobutadiene	ND	0.4	ug/L	2	05/06/15	MH	SW8260
Isopropylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
m&p-Xylene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Methyl ethyl ketone	ND	10	ug/L	2	05/06/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Methylene chloride	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Naphthalene	ND	2.0	ug/L	2	05/06/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
n-Propylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
o-Xylene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
p-Isopropyltoluene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
sec-Butylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Styrene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
tert-Butylbenzene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Tetrachloroethene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Tetrahydrofuran (THF)	ND	5.0	ug/L	2	05/06/15	MH	SW8260
Toluene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Total Xylenes	ND	2.0	ug/L	2	05/06/15	MH	SW8260
trans-1,2-Dichloroethene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.50	ug/L	2	05/06/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/L	2	05/06/15	MH	SW8260
Trichloroethene	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Trichlorofluoromethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Trichlorotrifluoroethane	ND	2.0	ug/L	2	05/06/15	MH	SW8260
Vinyl chloride	ND	2.0	ug/L	2	05/06/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	2	05/06/15	MH	70 - 130 %
% Bromofluorobenzene	97		%	2	05/06/15	MH	70 - 130 %
% Dibromofluoromethane	111		%	2	05/06/15	MH	70 - 130 %
% Toluene-d8	103		%	2	05/06/15	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	0.11	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	0.24	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.52	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.46	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.51	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.30	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.15	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	0.52	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	0.44	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	0.18	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.22	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	0.25	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	0.30	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	1.1	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	74		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	53		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-03

MW-03

Phoenix I.D.: BJ11546

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Volatile Comment:
Elevated reporting limits due to the foamy nature of the sample.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	11:13
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11547

Project ID: ANOCOIL
Client ID: 1218150504-04 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum (10um)	0.892	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium (10um)	0.023	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium (10um)	0.004	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper (10um)	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury (10um)	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470A/E245.1
Nickel (10um)	0.002	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium (10um)	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc (10um)	0.003	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7471B/E245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	05/08/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-04

MW-04

Phoenix I.D.: BJ11547

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/07/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	05/07/15	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/07/15	MH	70 - 130 %
% Dibromofluoromethane	103		%	1	05/07/15	MH	70 - 130 %
% Toluene-d8	101		%	1	05/07/15	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	0.22	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	0.60	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	0.43	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.18	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	0.11	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.15	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.05	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	0.20	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	0.50	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	0.51	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	0.11	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	3.5	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	0.80	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	113		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-04

MW-04

Phoenix I.D.: BJ11547

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.
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Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	12:09
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11548

Project ID: ANOCOIL
Client ID: 1218150504-05 MW-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum (10um)	3.94	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium (10um)	0.245	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper (10um)	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury (10um)	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470A/E245.1
Nickel (10um)	0.005	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium (10um)	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc (10um)	0.006	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7471B/E245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	05/08/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-05

MW-05

Phoenix I.D.: BJ11548

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/07/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	05/07/15	MH	70 - 130 %
% Bromofluorobenzene	91		%	1	05/07/15	MH	70 - 130 %
% Dibromofluoromethane	107		%	1	05/07/15	MH	70 - 130 %
% Toluene-d8	102		%	1	05/07/15	MH	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.04	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	73		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	125		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-05

MW-05

Phoenix I.D.: BJ11548

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.
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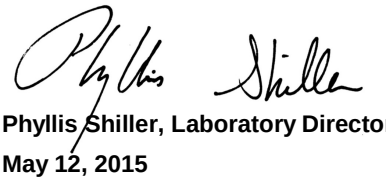

Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	12:20
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11549

Project ID: ANOCOIL
Client ID: 1218150504-06 MW-05 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum (10um)	3.72	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium (10um)	0.237	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium (10um)	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper (10um)	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury (10um)	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470A/E245.1
Nickel (10um)	0.004	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium (10um)	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc (10um)	0.006	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7471B/E245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	67		%	1	05/08/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-06

MW-05 Field Duplicate

Phoenix I.D.: BJ11549

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/07/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	05/07/15	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/07/15	MH	70 - 130 %
% Dibromofluoromethane	109		%	1	05/07/15	MH	70 - 130 %
% Toluene-d8	101		%	1	05/07/15	MH	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.04	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	0.23	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	71		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	119		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-06

MW-05 Field Duplicate

Phoenix I.D.: BJ11549

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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.
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Phyllis Shiller, Laboratory Director

May 12, 2015

Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	13:44
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11550

Project ID: ANOCOIL
Client ID: 1218150504-07 MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum	0.022	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium	0.383	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470/245.1
Nickel	0.003	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead	0.003	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
QC for AA	Completed				05/08/15	RS	
QC for Mercury	Completed				05/08/15	RS	
QC for ICP	Completed				05/05/15		SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc	0.059	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
MS/MSD Ext. for CT ETPH	Completed				05/08/15		
Mercury Digestion MS/MSD	Completed				05/06/15		SW7471B
Mercury Digestion	Completed				05/06/15	I/I	SW7470/245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
MS/MSD Ext. for Semi-Vol.	Completed				05/05/15		
Total Metals Digest MS/MSD	Completed				05/05/15		
Total Metals Digestion	Completed				05/04/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.074	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D

QA/QC Surrogates

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% n-Pentacosane	59		%	1	05/08/15	JRB	50 - 150 %
QC for ETPH	Completed				05/08/15		

Volatiles

1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/07/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	05/07/15	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	05/07/15	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	05/07/15	MH	70 - 130 %
% Toluene-d8	102		%	1	05/07/15	MH	70 - 130 %
QC for Volatile	Completed				05/07/15	MH	
QC for Volatile	Completed				05/07/15	MH	
MS/MSD Volatiles	Completed				05/07/15	MH	

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Benz(a)anthracene	0.04	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)
Chrysene	0.03	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/06/15	DD	SW8270D (SIM)
Fluoranthene	0.10	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/06/15	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1218150504-07 MW-02

Phoenix I.D.: BJ11550

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Naphthalene	0.22	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)	
Phenanthrene	0.16	0.07	ug/L	1	05/06/15	DD	SW8270D (SIM)	
Pyrene	ND	0.10	ug/L	1	05/06/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	69		%	1	05/06/15	DD	30 - 130 %	
% Nitrobenzene-d5	66		%	1	05/06/15	DD	30 - 130 %	
% Terphenyl-d14	142		%	1	05/06/15	DD	30 - 130 %	3
QC for Semi-Volatile	Completed				05/07/15			

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. 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.
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Phyllis Shiller, Laboratory Director
May 12, 2015
Reviewed and Released by: Greg Lawrence, Assistant Lab Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 12, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	LK	05/04/15	14:56
Location Code:	F&O	Received by:	SW	05/04/15	16:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P20				

Laboratory Data

SDG ID: GBJ11544
Phoenix ID: BJ11551

Project ID: ANOCOIL MW-01
Client ID: 1218150504-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Aluminum	0.183	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	05/06/15	TH	SW6010C/E200.7
Barium	0.229	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Cadmium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Copper	< 0.005	0.005	mg/L	1	05/06/15	TH	SW6010C/E200.7
Mercury	< 0.0002	0.0002	mg/L	1	05/06/15	RS	SW7470/245.1
Nickel	0.001	0.001	mg/L	1	05/06/15	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Selenium	< 0.010	0.010	mg/L	1	05/06/15	TH	SW6010C/E200.7
Zinc	0.010	0.002	mg/L	1	05/06/15	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				05/07/15	E/T	SW3510C/SW3520C
Mercury Digestion	Completed				05/06/15	I/I	SW7470/245.1
Semi-Volatile Extraction	Completed				05/04/15	E/D	SW3520C
Total Metals Digestion	Completed				05/04/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.072	mg/L	1	05/08/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	05/08/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	50		%	1	05/08/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-08

MW-01

Phoenix I.D.: BJ11551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	05/07/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Acetone	ND	25	ug/L	1	05/07/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	05/07/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	05/07/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	05/07/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1218150504-08

MW-01

Phoenix I.D.: BJ11551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	05/07/15	MH	SW8260
Toluene	1.5	1.0	ug/L	1	05/07/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	05/07/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	05/07/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	05/07/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	05/07/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	05/07/15	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	05/07/15	MH	70 - 130 %
% Dibromofluoromethane	108		%	1	05/07/15	MH	70 - 130 %
% Toluene-d8	101		%	1	05/07/15	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Acenaphthylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Anthracene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Chrysene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluoranthene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Fluorene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	05/05/15	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.07	ug/L	1	05/05/15	DD	SW8270D (SIM)
Pyrene	ND	0.10	ug/L	1	05/05/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	05/05/15	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	05/05/15	DD	30 - 130 %
% Terphenyl-d14	119		%	1	05/05/15	DD	30 - 130 %

Project ID: ANOCOIL
Client ID: 1218150504-08 MW-01

Phoenix I.D.: BJ11551

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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
May 12, 2015
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

May 12, 2015

QA/QC Data

SDG I.D.: GBJ11544

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 306781 (mg/L), QC Sample No: BJ11550 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.022	0.026	NC	96.8	96.9	0.1	109	106	2.8	75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	97.0	96.5	0.5	101	100	1.0	75 - 125	20
Barium	BRL	0.002	0.383	0.378	1.30	105	105	0.0	99.7	98.4	1.3	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.4	98.3	0.1	94.2	93.7	0.5	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	97.4	96.8	0.6	96.2	95.4	0.8	75 - 125	20
Copper	BRL	0.005	<0.005	<0.005	NC	102	103	1.0	106	105	0.9	75 - 125	20
Lead	BRL	0.002	0.003	0.004	NC	98.1	97.4	0.7	95.6	95.1	0.5	75 - 125	20
Nickel	BRL	0.001	0.003	0.002	NC	101	100	1.0	97.7	96.9	0.8	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	94.6	93.9	0.7	96.8	95.8	1.0	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	96.1	96.8	0.7	99.5	98.9	0.6	75 - 125	20
Zinc	BRL	0.002	0.059	0.058	1.70	98.7	98.7	0.0	97.9	96.5	1.4	75 - 125	20
QA/QC Batch 306949 (mg/L), QC Sample No: BJ11550 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	111	95.5	15.0	105	94.6	10.4	70 - 130	20

Comment:

Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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QA/QC Report

May 12, 2015

QA/QC Data

SDG I.D.: GBJ11544

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 307194 (mg/L), QC Sample No: BJ11550 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum HC	ND	0.070	61			63	64	1.6	60 - 120	30	
% n-Pentacosane	55	%	70			63	68	7.6	50 - 150	20	
QA/QC Batch 307127 (ug/L), QC Sample No: BJ11550 (BJ11544, BJ11545, BJ11546 (2X) , BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)											
Volatiles - Water											
1,1,1,2-Tetrachloroethane	ND	1.0	95			109	113	3.6	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	88			116	121	4.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	100			96	101	5.1	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	97			102	113	10.2	70 - 130	30	
1,1-Dichloroethane	ND	1.0	92			105	110	4.7	70 - 130	30	
1,1-Dichloroethene	ND	1.0	92			109	121	10.4	70 - 130	30	
1,1-Dichloropropene	ND	1.0	92			119	123	3.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	99			104	107	2.8	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	96			102	105	2.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	99			104	107	2.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92			110	111	0.9	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	97			92	103	11.3	70 - 130	30	
1,2-Dibromoethane	ND	1.0	97			102	111	8.5	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	95			105	107	1.9	70 - 130	30	
1,2-Dichloroethane	ND	1.0	90			112	117	4.4	70 - 130	30	
1,2-Dichloropropane	ND	1.0	97			104	111	6.5	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	95			111	110	0.9	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	95			107	107	0.0	70 - 130	30	
1,3-Dichloropropane	ND	1.0	97			103	112	8.4	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	93			103	106	2.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	84			98	103	5.0	70 - 130	30	
2-Chlorotoluene	ND	1.0	96			107	107	0.0	70 - 130	30	
2-Hexanone	ND	5.0	99			98	109	10.6	70 - 130	30	
2-Isopropyltoluene	ND	1.0	100			112	113	0.9	70 - 130	30	
4-Chlorotoluene	ND	1.0	96			107	107	0.0	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	101			105	120	13.3	70 - 130	30	
Acetone	ND	5.0	84			59	76	25.2	70 - 130	30	m
Acrylonitrile	ND	5.0	106			102	106	3.8	70 - 130	30	
Benzene	ND	0.70	95			105	110	4.7	70 - 130	30	
Bromobenzene	ND	1.0	97			106	108	1.9	70 - 130	30	
Bromochloromethane	ND	1.0	97			100	110	9.5	70 - 130	30	
Bromodichloromethane	ND	0.50	95			111	115	3.5	70 - 130	30	
Bromoform	ND	1.0	98			111	116	4.4	70 - 130	30	
Bromomethane	ND	1.0	90			72	105	37.3	70 - 130	30	r
Carbon Disulfide	ND	1.0	96			108	117	8.0	70 - 130	30	
Carbon tetrachloride	ND	1.0	87			123	126	2.4	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ11544

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Chlorobenzene	ND	1.0	95			104	108	3.8	70 - 130	30
Chloroethane	ND	1.0	84			105	117	10.8	70 - 130	30
Chloroform	ND	1.0	92			107	112	4.6	70 - 130	30
Chloromethane	ND	1.0	82			95	111	15.5	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	101			102	109	6.6	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	102			106	113	6.4	70 - 130	30
Dibromochloromethane	ND	0.50	101			111	116	4.4	70 - 130	30
Dibromomethane	ND	1.0	92			105	109	3.7	70 - 130	30
Dichlorodifluoromethane	ND	1.0	80			106	119	11.6	70 - 130	30
Ethylbenzene	ND	1.0	95			110	113	2.7	70 - 130	30
Hexachlorobutadiene	ND	0.40	91			108	110	1.8	70 - 130	30
Isopropylbenzene	ND	1.0	97			111	112	0.9	70 - 130	30
m&p-Xylene	ND	1.0	95			110	113	2.7	70 - 130	30
Methyl ethyl ketone	ND	5.0	90			88	96	8.7	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101			97	109	11.7	70 - 130	30
Methylene chloride	ND	1.0	85			90	103	13.5	70 - 130	30
Naphthalene	ND	1.0	107			108	114	5.4	70 - 130	30
n-Butylbenzene	ND	1.0	91			113	111	1.8	70 - 130	30
n-Propylbenzene	ND	1.0	89			110	109	0.9	70 - 130	30
o-Xylene	ND	1.0	98			111	116	4.4	70 - 130	30
p-Isopropyltoluene	ND	1.0	94			114	113	0.9	70 - 130	30
sec-Butylbenzene	ND	1.0	95			114	113	0.9	70 - 130	30
Styrene	ND	1.0	98			109	115	5.4	70 - 130	30
tert-Butylbenzene	ND	1.0	95			114	114	0.0	70 - 130	30
Tetrachloroethene	ND	1.0	91			115	118	2.6	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	94			80	97	19.2	70 - 130	30
Toluene	ND	1.0	94			108	112	3.6	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	97			102	110	7.5	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	99			109	114	4.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	104			94	102	8.2	70 - 130	30
Trichloroethene	ND	1.0	94			108	113	4.5	70 - 130	30
Trichlorofluoromethane	ND	1.0	79			125	129	3.1	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	84			110	122	10.3	70 - 130	30
Vinyl chloride	ND	1.0	93			100	117	15.7	70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	98			102	98	4.0	70 - 130	30
% Bromofluorobenzene	90	%	98			102	104	1.9	70 - 130	30
% Dibromofluoromethane	104	%	104			96	103	7.0	70 - 130	30
% Toluene-d8	101	%	101			101	102	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 306769 (ug/L), QC Sample No: BJ11550 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)

Polynuclear Aromatic HC - Water

2-Methylnaphthalene	ND	0.05	60	59	1.7	60	60	0.0	30 - 130	20
Acenaphthene	ND	0.05	79	80	1.3	82	83	1.2	30 - 130	20
Acenaphthylene	ND	0.04	84	85	1.2	86	89	3.4	30 - 130	20
Anthracene	ND	0.05	90	92	2.2	92	95	3.2	30 - 130	20
Benz(a)anthracene	ND	0.02	83	83	0.0	84	84	0.0	30 - 130	20
Benzo(a)pyrene	ND	0.02	85	84	1.2	85	85	0.0	30 - 130	20
Benzo(b)fluoranthene	ND	0.02	96	94	2.1	97	95	2.1	30 - 130	20
Benzo(ghi)perylene	ND	0.05	72	78	8.0	77	80	3.8	30 - 130	20
Benzo(k)fluoranthene	ND	0.02	98	97	1.0	102	102	0.0	30 - 130	20
Chrysene	ND	0.02	89	88	1.1	92	90	2.2	30 - 130	20

QA/QC Data

SDG I.D.: GBJ11544

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibenz(a,h)anthracene	ND	0.01	75	82	8.9	79	84	6.1	30 - 130	20
Fluoranthene	ND	0.05	91	87	4.5	94	98	4.2	30 - 130	20
Fluorene	ND	0.05	81	84	3.6	82	84	2.4	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	73	80	9.2	78	81	3.8	30 - 130	20
Naphthalene	ND	0.05	71	70	1.4	69	69	0.0	30 - 130	20
Phenanthrene	ND	0.05	81	82	1.2	81	84	3.6	30 - 130	20
Pyrene	ND	0.05	97	91	6.4	103	106	2.9	30 - 130	20
% 2-Fluorobiphenyl	78	%	74	73	1.4	77	78	1.3	30 - 130	20
% Nitrobenzene-d5	85	%	66	67	1.5	67	68	1.5	30 - 130	20
% Terphenyl-d14	88	%	112	100	11.3	116	120	3.4	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%)

m = This parameter is outside laboratory ms/msd specified recovery limits.
r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 12, 2015

Sample Criteria Exceedences Report

GBJ11544 - FO

Criteria: CT: GWP, RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ11544	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11544	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11545	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.19	0.07	0.077	0.077	ug/L
BJ11545	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11545	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11546	$8100SIMR	Indeno(1,2,3-cd)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.22	0.02	0.2	0.2	ug/L
BJ11546	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.51	0.02	0.08	0.08	ug/L
BJ11546	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.46	0.02	0.2	0.2	ug/L
BJ11546	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.52	0.02	0.06	0.06	ug/L
BJ11546	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.30	0.07	0.077	0.077	ug/L
BJ11546	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.51	0.02	0.3	0.3	ug/L
BJ11546	$8100SIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.46	0.02	0.3	0.3	ug/L
BJ11546	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.52	0.02	0.3	0.3	ug/L
BJ11546	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	10	0.5	0.5	ug/L
BJ11546	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	2.0	0.05	0.05	ug/L
BJ11546	$ETPH_WMR	Ext. Petroleum HC	CT / PESTICIDES, PCB's, TPH, a / GWPC (µg/L)	1.2	0.070	0.5	0.5	mg/L
BJ11546	AS-WM	Arsenic	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.007	0.004	0.004	0.004	mg/L
BJ11547	$8100SIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.15	0.02	0.08	0.08	ug/L
BJ11547	$8100SIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / GWPC (µg/L)	0.18	0.02	0.06	0.06	ug/L
BJ11547	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	3.5	0.07	0.077	0.077	ug/L
BJ11547	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11547	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11548	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11548	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11549	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11549	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11550	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.16	0.07	0.077	0.077	ug/L
BJ11550	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	ug/L
BJ11550	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11551	$8260GWR	1,2-Dibromoethane	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	1.0	0.05	0.05	ug/L
BJ11551	$8260GWR	Acrylonitrile	CT / VOLATILE ORGANIC COMPOUND / GWPC (µg/L)	ND	5.0	0.5	0.5	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ11544, BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551

Sampling Date(s): 5/4/2015

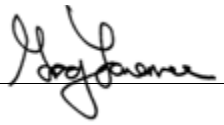
RCP Methods Used:

☐ 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: 

Date: Tuesday, May 12, 2015

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. The following analytes were not reported: Antimony, Beryllium, Thallium, Vanadium.

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).

Lead Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Zeeman 05/06/15-1 (BJ11550)

The initial calibration met all criteria including a standard run at 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: 5/6/2015

Selenium Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Zeeman 05/08/15-1 (BJ11550)

Printed Name Rick Schweitzer
Position: Chemist
Date: 5/8/2015

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

Instrument: Au-fid1 05/08/15-1 (BJ11545, BJ11547, BJ11550)

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: 5/8/2015

Instrument: Aufid-d1 05/06/15-5 (BJ11550)

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: 5/6/2015

Instrument: Au-xl2 05/06/15-1 (BJ11546, BJ11550)

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: 5/6/2015

Instrument: Au-xl2 05/08/15-1 (BJ11548, BJ11549, BJ11550, BJ11551)

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: 5/8/2015

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

QC (Site Specific)

---------- Sample No: BJ11550, QA/QC Batch: 307194 ----------

All LCS recoveries were within 60 - 120 with the following exceptions: None.

All MS recoveries were within 50 - 150 with the following exceptions: None.

All MSD recoveries were within 50 - 150 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: None.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 05/06/15-1 (BJ11545, BJ11546, BJ11550, BJ11551)

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: 5/6/2015

QC (Site Specific)

---------- Sample No: BJ11550, QA/QC Batch: 306949 ----------

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.

ICP Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Environmental Laboratories, Inc.
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RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

Instrument: Blue 05/05/15-1 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)

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: 5/5/2015

Instrument: Blue 05/06/15-1 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)

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: 5/6/2015

QC (Site Specific)

---------- Sample No: BJ11550, QA/QC Batch: 306781 ----------

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.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem04 05/05/15-1 (BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11551)

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.

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RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

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 (CHEM04/SIM_0428):
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 (CHEM04/0505_02-SIM_0428):
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 (.068)[0.1], Bis(2-chloroethyl)ether (.642)[0.7]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/5/2015

Instrument: Chem04 05/06/15-1 (BJ11550)

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 Verification (CHEM04/SIM_0428):
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 (CHEM04/0506_02-SIM_0428):
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 (.061)[0.1], Bis(2-chloroethyl)ether (.629)[0.7]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 5/6/2015

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

QC (Site Specific)

---------- Sample No: BJ11550, QA/QC Batch: 306769 ----------

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.

All MS recoveries were within 30 - 130 with the following exceptions: None.

All MSD recoveries were within 30 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 20% with the following exceptions: None.

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 307127 (Samples: BJ11544, BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551): -----

The LCS/LCSD recovery is acceptable. One analyte in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (Acetone)

Instrument: Chem02 05/06/15-3 (BJ11544, BJ11545, BJ11546, BJ11547, BJ11548, BJ11549, BJ11550, BJ11551)

Initial Calibration Verification (CHEM02/VT-P0506):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (31%), Methyl Ethyl Ketone (22%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM02/0506P13-VT-P0506):
100% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing 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 Michael Hahn
Position: Chemist
Date: 5/6/2015

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

May 12, 2015

SDG I.D.: GBJ11544

QC (Site Specific)

---------- Sample No: BJ11550, QA/QC Batch: 307127 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: None.

All MS recoveries were within 70 - 130 with the following exceptions: Acetone(59%)

All MSD recoveries were within 70 - 130 with the following exceptions: None.

All MS/MSD RPDs were less than 30% with the following exceptions: Bromomethane(37.3%)

A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Temperature Narration

The samples in this delivery group were received at 6°C.
(Note acceptance criteria is above freezing up to 6°C)

6 w/c+DP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 32785

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Arocoli	Vernon, CT	2001454.P20	Phoenix

REPORT TO: Kevin Vandeveer (F&O)
INVOICE TO:
P.O. NO.:
Sampler's Signature: Lauren Kostak Date: 5/4/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	RCRA 8-metals plus Al, Cu, Ni, Zn																			Comments
															Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) ☐ $Na(SO_4)_2$ ☐ oz	Other:	Other: PLASTIC HNO_3 250ml unpreserved	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000 ml, ☒ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ	Plastic - NaOH, 250 ml	☒ 10µ	
01		1218150504-01	X	5/4/15	0930	X						11544							2									
02		-02	MW		1003		X	X	X			11545					1		3	3								
03		-03			1230							11546					1		3	2								* see below
04		-04			1113							11547							3	3			1					
05		-05			1209							11548							3	3			1					
06		-06			1220							11549							3	3			1					
07		-07			1344							11550					3		9	9								MS/MSD
08		-08			1456							11551					1		3	3								

Transfer Number	Relinquished By	Accepted By	Date	Time
1	L. Kostak	Charadine	5/4/15	1612
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
GWPC, SWPC, Res VC
Additional Comments:
Phoenix Quote F0040315BA
* Sample - 03 has Low Sample Volume.

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 08, 2015

Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BJ37685

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.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED
By pbibeau at 7:37 am, Jul 09, 2015
DMS

PHOENIX
Environmental Laboratories, Inc.

Monday, July 06, 2015

Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BJ37679 - BJ37686

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.

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

REVIEWED **DMS**
By pbibeau at 7:37 am, Jul 09, 2015

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 08, 2015

SDG I.D.: GBJ37679

Version 2:
Changes made to metals, QC, and RCP.

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 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	9:00
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37679

Project ID: ANOCOIL
Client ID: 1251150626-076

MW-09

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-076

MW-09

Phoenix I.D.: BJ37679

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/26/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/26/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/26/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	06/26/15	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/26/15	MH	70 - 130 %
% Dibromofluoromethane	89		%	1	06/26/15	MH	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150626-076

MW-09

Phoenix I.D.: BJ37679

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	06/26/15	MH	70 - 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.
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Phyllis Shiller, Laboratory Director
July 06, 2015
Reviewed and Released by: Ethan Lee, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	9:50
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37680

Project ID: ANOCOIL
Client ID: 1251150626-077

MW-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Aluminum	0.835	0.010	mg/L	1	06/30/15	EK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	06/30/15	EK	SW6010C
Barium	0.102	0.002	mg/L	1	06/30/15	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Chromium	0.007	0.001	mg/L	1	06/30/15	EK	SW6010C
Copper	0.015	0.005	mg/L	1	06/30/15	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/30/15	RS	SW7470A
Nickel	0.007	0.001	mg/L	1	06/30/15	EK	SW6010C
Lead	0.003	0.002	mg/L	1	06/30/15	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/30/15	EK	SW6010C
Zinc	0.011	0.002	mg/L	1	06/30/15	EK	SW6010C
Extraction of CT ETPH	Completed				06/28/15		SW3510C/SW3520C
Mercury Digestion	Completed				06/30/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				06/26/15	N/DW	SW3520C
Total Metals Digestion	Completed				06/29/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/29/15	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	06/29/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-077

MW-10

Phoenix I.D.: BJ37680

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Acetone	ND	25	ug/L	1	06/26/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/26/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/26/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
n-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/26/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	06/26/15	MH	70 - 130 %
% Bromofluorobenzene	94		%	1	06/26/15	MH	70 - 130 %
% Dibromofluoromethane	83		%	1	06/26/15	MH	70 - 130 %
% Toluene-d8	100		%	1	06/26/15	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	06/30/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	06/30/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	06/30/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
2-Chloronaphthalene	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
2-Chlorophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
2-Nitroaniline	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
2-Nitrophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	06/30/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
3-Nitroaniline	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D
4-Chloroaniline	ND	5.0	ug/L	1	06/30/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	06/30/15	DD	SW8270D

Project ID: ANOCOIL
Client ID: 1251150626-077

MW-10

Phoenix I.D.: BJ37680

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
4-Nitroaniline	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	06/30/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	06/30/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	06/30/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	06/30/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	99		%	1	06/30/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	69		%	1	06/30/15	DD	30 - 130 %	
% 2-Fluorophenol	54		%	1	06/30/15	DD	15 - 110 %	
% Nitrobenzene-d5	67		%	1	06/30/15	DD	30 - 130 %	
% Phenol-d5	62		%	1	06/30/15	DD	15 - 110 %	
% Terphenyl-d14	99		%	1	06/30/15	DD	30 - 130 %	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Benz(a)anthracene	0.02	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)	B
Chrysene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)	

Project ID: ANOCOIL
Client ID: 1251150626-077

MW-10

Phoenix I.D.: BJ37680

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	ND	0.10	ug/L	1	06/29/15	DD	SW8270D (SIM)
Nitrobenzene	ND	0.10	ug/L	1	06/29/15	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.10	ug/L	1	06/29/15	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.80	ug/L	1	06/29/15	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/29/15	DD	SW8270D (SIM)
Pyrene	ND	0.02	ug/L	1	06/29/15	DD	SW8270D (SIM)
Pyridine	ND	0.50	ug/L	1	06/29/15	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	06/29/15	DD	15 - 110 %
% 2-Fluorobiphenyl	69		%	1	06/29/15	DD	30 - 130 %
% 2-Fluorophenol	54		%	1	06/29/15	DD	15 - 110 %
% Nitrobenzene-d5	67		%	1	06/29/15	DD	30 - 130 %
% Phenol-d5	62		%	1	06/29/15	DD	15 - 110 %
% Terphenyl-d14	99		%	1	06/29/15	DD	30 - 130 %

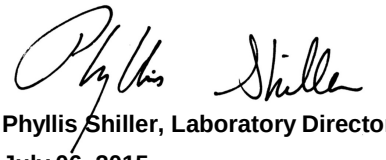
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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 06, 2015

Reviewed and Released by: Ethan Lee, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/26/15	10:40
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37681

Project ID: ANOCOIL
Client ID: 1251150626-078

SB-35A (1-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
pH - Soil	4.77	0.10	pH Units	1	06/26/15 21:00	DH/KDB	SW9045

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 06, 2015
Reviewed and Released by: Ethan Lee, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		06/26/15	10:45
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37682

Project ID: ANOCOIL
Client ID: 1251150626-079

SB-33A (1-1.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
pH - Soil	4.85	0.10	pH Units	1	06/26/15 21:00	DH/KDB	SW9045

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 06, 2015
Reviewed and Released by: Ethan Lee, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	12:05
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37683

Project ID: ANOCOIL
Client ID: 1251150626-080 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Aluminum	0.279	0.010	mg/L	1	06/30/15	LK	SW6010C
Arsenic	0.004	0.004	mg/L	1	06/30/15	LK	SW6010C
Barium	0.148	0.002	mg/L	1	06/30/15	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Chromium	0.011	0.001	mg/L	1	06/30/15	EK	SW6010C
Copper	< 0.005	0.005	mg/L	1	06/30/15	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/30/15	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Lead	0.003	0.002	mg/L	1	06/30/15	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/30/15	EK	SW6010C
Zinc	0.002	0.002	mg/L	1	06/30/15	EK	SW6010C
Extraction of CT ETPH	Completed				06/28/15		SW3510C/SW3520C
Mercury Digestion	Completed				06/30/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				06/26/15	N/D	SW3520C
Total Metals Digestion	Completed				06/29/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.44	0.070	mg/L	1	06/29/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	06/29/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260

Project ID: ANOCOIL MW-07 Phoenix I.D.: BJ37683

Client ID: 1251150626-080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trimethylbenzene	12	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3,5-Trimethylbenzene	2.9	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Acetone	ND	25	ug/L	1	06/26/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Benzene	1.7	0.70	ug/L	1	06/26/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Ethylbenzene	27	1.0	ug/L	1	06/26/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Isopropylbenzene	13	1.0	ug/L	1	06/26/15	MH	SW8260
m&p-Xylene	25	1.0	ug/L	1	06/26/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Naphthalene	250	50	ug/L	50	06/27/15	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
n-Propylbenzene	1.1	1.0	ug/L	1	06/26/15	MH	SW8260	
o-Xylene	24	20	ug/L	20	06/27/15	MH	SW8260	
p-Isopropyltoluene	3.4	1.0	ug/L	1	06/26/15	MH	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Styrene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/26/15	MH	SW8260	
Toluene	1.7	1.0	ug/L	1	06/26/15	MH	SW8260	
Total Xylenes	49	20	ug/L	20	06/27/15	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/26/15	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	95		%	1	06/26/15	MH	70 - 130 %	
% Bromofluorobenzene	99		%	1	06/26/15	MH	70 - 130 %	
% Dibromofluoromethane	87		%	1	06/26/15	MH	70 - 130 %	
% Toluene-d8	100		%	1	06/26/15	MH	70 - 130 %	
Client MS/MSD	Completed				06/30/15			
Semivolatiles by SIM								
2-Methylnaphthalene	24	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Acenaphthene	2.6	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Acenaphthylene	1.0	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Anthracene	1.7	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benz(a)anthracene	0.20	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	B*
Benzo(a)pyrene	0.09	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	0.12	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	0.05	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Chrysene	0.21	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluoranthene	0.88	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluorene	4.3	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	0.06	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Naphthalene	150	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Phenanthrene	15	0.14	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Pyrene	1.0	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	66		%	1	06/30/15	DD	30 - 130 %	
% Nitrobenzene-d5	70		%	1	06/30/15	DD	30 - 130 %	
% Terphenyl-d14	76		%	1	06/30/15	DD	30 - 130 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

BJ37683 - The volatile vial was tested for chlorine at the time of analysis. Chlorine was present in the sample.

TPH Comment:
**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.

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 06, 2015
Reviewed and Released by: Ethan Lee, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	12:10
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37684

Project ID: ANOCOIL
Client ID: 1251150626-081

MW-07 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Aluminum	0.070	0.010	mg/L	1	06/30/15	EK	SW6010C
Arsenic	0.004	0.004	mg/L	1	06/30/15	LK	SW6010C
Barium	0.164	0.002	mg/L	1	06/30/15	EK	SW6010C
Cadmium	< 0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Chromium	0.013	0.001	mg/L	1	06/30/15	EK	SW6010C
Copper	< 0.005	0.005	mg/L	1	06/30/15	EK	SW6010C
Mercury	< 0.0002	0.0002	mg/L	1	06/30/15	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	06/30/15	EK	SW6010C
Lead	0.004	0.002	mg/L	1	06/30/15	EK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	06/30/15	EK	SW6010C
Zinc	0.002	0.002	mg/L	1	06/30/15	EK	SW6010C
Extraction of CT ETPH	Completed				06/28/15		SW3510C/SW3520C
Mercury Digestion	Completed				06/30/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				06/26/15	N/D	SW3520C
Total Metals Digestion	Completed				06/29/15	AG	SW3050B
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.33	0.070	mg/L	1	06/29/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	06/29/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-081

MW-07 Field Duplicate

Phoenix I.D.: BJ37684

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trimethylbenzene	12	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3,5-Trimethylbenzene	2.7	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Acetone	ND	25	ug/L	1	06/26/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Benzene	1.8	0.70	ug/L	1	06/26/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Ethylbenzene	27	1.0	ug/L	1	06/26/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Isopropylbenzene	13	1.0	ug/L	1	06/26/15	MH	SW8260
m&p-Xylene	26	1.0	ug/L	1	06/26/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Naphthalene	270	20	ug/L	20	06/27/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-081

MW-07 Field Duplicate

Phoenix I.D.: BJ37684

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
n-Propylbenzene	1.0	1.0	ug/L	1	06/26/15	MH	SW8260	
o-Xylene	23	20	ug/L	20	06/27/15	MH	SW8260	
p-Isopropyltoluene	3.4	1.0	ug/L	1	06/26/15	MH	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Styrene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/26/15	MH	SW8260	
Toluene	1.7	1.0	ug/L	1	06/26/15	MH	SW8260	
Total Xylenes	49	20	ug/L	20	06/27/15	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/26/15	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	97		%	1	06/26/15	MH	70 - 130 %	
% Bromofluorobenzene	98		%	1	06/26/15	MH	70 - 130 %	
% Dibromofluoromethane	84		%	1	06/26/15	MH	70 - 130 %	
% Toluene-d8	100		%	1	06/26/15	MH	70 - 130 %	
Semivolatiles by SIM								
2-Methylnaphthalene	24	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Acenaphthene	2.5	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Anthracene	1.5	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benz(a)anthracene	0.11	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	B*
Benzo(a)pyrene	0.05	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	0.07	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	0.03	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Chrysene	0.12	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluoranthene	0.69	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluorene	4.3	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	0.02	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Naphthalene	140	0.20	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Phenanthrene	14	0.14	ug/L	2	06/30/15	DD	SW8270D (SIM)	
Pyrene	0.74	0.10	ug/L	1	06/30/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	72		%	1	06/30/15	DD	30 - 130 %	
% Nitrobenzene-d5	69		%	1	06/30/15	DD	30 - 130 %	
% Terphenyl-d14	68		%	1	06/30/15	DD	30 - 130 %	

Project ID: ANOCOIL
Client ID: 1251150626-081

MW-07 Field Duplicate

Phoenix I.D.: BJ37684

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

B* = Present in blank, a bias is possible.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

BJ37684 - The volatile vial was tested for chlorine at the time of analysis. Chlorine was present in the sample.

TPH Comment:
**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.

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 06, 2015
Reviewed and Released by: Ethan Lee, 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

July 08, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	13:15
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37685

Project ID: ANOCOIL
Client ID: 1251150626-082

MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver (10um)	< 0.001	0.001	mg/L	1	07/01/15	LK	SW6010C
Aluminum (10um)	1.88	0.004	mg/L	1	07/01/15	LK	SW6010C
Arsenic (10um)	0.007	0.004	mg/L	1	07/01/15	LK	SW6010C
Barium (10um)	0.069	0.002	mg/L	1	07/01/15	LK	SW6010C
Cadmium (10um)	< 0.001	0.001	mg/L	1	07/01/15	LK	SW6010C
Chromium (10um)	0.012	0.001	mg/L	1	07/01/15	LK	SW6010C
Copper (10um)	0.023	0.005	mg/L	1	07/01/15	LK	SW6010C
Mercury (10um)	< 0.0002	0.0002	mg/L	1	07/01/15	RS	SW7470A/E245.1
Nickel (10um)	0.001	0.001	mg/L	1	07/01/15	LK	SW6010C
Lead (10um)	0.083	0.002	mg/L	1	07/01/15	LK	SW6010C
Selenium (10um)	< 0.011	0.011	mg/L	1	07/01/15	LK	SW6010C
Zinc (10um)	0.020	0.002	mg/L	1	07/01/15	LK	SW6010C
Extraction of CT ETPH	Completed				06/28/15		SW3510C/SW3520C
Mercury Digestion	Completed				07/01/15	I/I	SW7471B/E245.1
Semi-Volatile Extraction	Completed				06/26/15	N/D	SW3520C
Total Metals Digestion	Completed				06/26/15	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.17	0.070	mg/L	1	06/29/15	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/29/15	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/29/15	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/27/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-082

MW-08

Phoenix I.D.: BJ37685

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,1-Dichloroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/27/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/27/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/27/15	MH	SW8260
Acetone	ND	25	ug/L	1	06/27/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/27/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/27/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/27/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Carbon Disulfide	5.4	5.0	ug/L	1	06/27/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/27/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/27/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/27/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/27/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/27/15	MH	SW8260
Naphthalene	1.8	1.0	ug/L	1	06/27/15	MH	SW8260

Project ID: ANOCOIL
Client ID: 1251150626-082

MW-08

Phoenix I.D.: BJ37685

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
n-Butylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
n-Propylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
o-Xylene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
p-Isopropyltoluene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
sec-Butylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Styrene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
tert-Butylbenzene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Tetrachloroethene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/27/15	MH	SW8260	
Toluene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Total Xylenes	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/27/15	MH	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/27/15	MH	SW8260	
Trichloroethene	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
Vinyl chloride	ND	1.0	ug/L	1	06/27/15	MH	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	116		%	1	06/27/15	MH	70 - 130 %	
% Bromofluorobenzene	95		%	1	06/27/15	MH	70 - 130 %	
% Dibromofluoromethane	95		%	1	06/27/15	MH	70 - 130 %	
% Toluene-d8	99		%	1	06/27/15	MH	70 - 130 %	
Semivolatiles by SIM								
2-Methylnaphthalene	0.22	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Acenaphthene	4.6	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Anthracene	0.51	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benz(a)anthracene	0.16	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	B*
Benzo(a)pyrene	0.11	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	0.12	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	0.05	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Chrysene	0.17	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluoranthene	0.77	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Fluorene	1.4	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	0.05	0.02	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Naphthalene	0.52	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Phenanthrene	3.3	0.08	ug/L	1	06/30/15	DD	SW8270D (SIM)	
Pyrene	0.90	0.11	ug/L	1	06/30/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	65		%	1	06/30/15	DD	30 - 130 %	
% Nitrobenzene-d5	72		%	1	06/30/15	DD	30 - 130 %	
% Terphenyl-d14	25		%	1	06/30/15	DD	30 - 130 %	3

Project ID: ANOCOIL
Client ID: 1251150626-082

MW-08

Phoenix I.D.: BJ37685

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

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:

BJ37685 - The volatile vial was tested for chlorine at the time of analysis. Chlorine was present in the sample.

TPH Comment:
**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.

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
July 08, 2015
Reviewed and Released by: Sarah Bell, 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

July 06, 2015

FOR: Attn: Mr Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		06/26/15	14:15
Location Code:	F&O	Received by:	LK	06/26/15	15:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P30				

Laboratory Data

SDG ID: GBJ37679
Phoenix ID: BJ37686

Project ID: ANOCOIL
Client ID: 1251150626-083

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/26/15	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/26/15	MH	SW8260

Project ID: ANOCOIL

Client ID: 1251150626-083

Trip Blank

Phoenix I.D.: BJ37686

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/26/15	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/26/15	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/26/15	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/26/15	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/26/15	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/26/15	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/26/15	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/26/15	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	06/26/15	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	06/26/15	MH	70 - 130 %
% Dibromofluoromethane	89		%	1	06/26/15	MH	70 - 130 %

Project ID: ANOCOIL
Client ID: 1251150626-083

Trip Blank

Phoenix I.D.: BJ37686

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	06/26/15	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

TRIP BLANK INCLUDED

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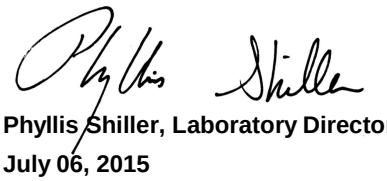

Phyllis Shiller, Laboratory Director
July 06, 2015
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
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QA/QC Report

July 08, 2015

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 312100 (mg/L), QC Sample No: BJ31024 (BJ37685)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.022	0.056	NC	90.5	91.1	0.7	101	104	2.9	75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	95.3	95.3	0.0	97.6	98.9	1.3	75 - 125	20	
Barium	BRL	0.002	0.016	0.017	6.10	101	101	0.0	100	101	1.0	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	92.5	93.5	1.1	88.7	89.7	1.1	75 - 125	20	
Chromium	BRL	0.001	0.002	0.001	NC	94.1	94.0	0.1	90.5	91.8	1.4	75 - 125	20	
Copper	BRL	0.005	0.008	0.008	NC	97.3	97.3	0.0	101	102	1.0	75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	94.4	94.3	0.1	90.3	92.2	2.1	75 - 125	20	
Nickel	BRL	0.001	0.006	0.006	0	97.9	98.1	0.2	93.3	94.6	1.4	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	93.1	94.2	1.2	94.4	95.2	0.8	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	92.6	93.3	0.8	96.0	96.4	0.4	75 - 125	20	
Zinc	BRL	0.002	0.023	0.023	0	94.2	94.8	0.6	94.4	95.1	0.7	75 - 125	20	
QA/QC Batch 312493 (mg/L), QC Sample No: BJ36525 (BJ37685)														
Mercury (Dissolved)	BRL	0.0003	<0.0003	<0.0003	NC	93.4	95.8	2.5	93.8	91.7	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 312276 (mg/L), QC Sample No: BJ37683 (BJ37680, BJ37683, BJ37684)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.279	0.216	25.5	89.2	88.3	1.0	84.4	83.7	0.8	75 - 125	20	r
Arsenic	BRL	0.004	0.004	0.004	NC	94.9	93.6	1.4	97.7	95.5	2.3	75 - 125	20	
Barium	BRL	0.002	0.148	0.151	2.00	100	99.9	0.1	102	99.5	2.5	75 - 125	20	
Cadmium	BRL	0.001	<0.001	<0.001	NC	93.6	91.8	1.9	93.0	91.4	1.7	75 - 125	20	
Chromium	BRL	0.001	0.011	0.012	8.70	93.0	91.9	1.2	94.6	92.7	2.0	75 - 125	20	
Copper	BRL	0.005	<0.005	<0.005	NC	96.2	96.9	0.7	97.6	96.7	0.9	75 - 125	20	
Lead	BRL	0.002	0.003	0.003	NC	94.1	92.9	1.3	94.8	93.2	1.7	75 - 125	20	
Nickel	BRL	0.001	0.001	0.001	NC	97.1	96.0	1.1	97.0	95.2	1.9	75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	93.8	91.9	2.0	94.2	92.3	2.0	75 - 125	20	
Silver	BRL	0.001	<0.001	<0.001	NC	92.1	92.4	0.3	95.0	93.1	2.0	75 - 125	20	
Zinc	BRL	0.002	0.002	0.003	NC	94.4	92.3	2.2	95.2	93.8	1.5	75 - 125	20	
QA/QC Batch 312358 (mg/L), QC Sample No: BJ37683 (BJ37680, BJ37683, BJ37684)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	95.5	93.2	2.4	95.4	84.3	12.4	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.

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QA/QC Report

July 08, 2015

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 312144 (PH), QC Sample No: BJ37417 (BJ37681, BJ37682)													
pH - Soil			7.12	7.34	3.00	99.5						85 - 115	20

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QA/QC Report

July 08, 2015

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 312105 (ug/L), QC Sample No: BJ34329 (BJ37680)										
Semivolatiles - Ground Water										
1,2,4,5-Tetrachlorobenzene	ND	0.50	84	86	2.4				30 - 130	20
1,2,4-Trichlorobenzene	ND	3.5	76	76	0.0				30 - 130	20
1,2-Dichlorobenzene	ND	1.0	69	68	1.5				30 - 130	20
1,2-Diphenylhydrazine	ND	1.6	94	88	6.6				30 - 130	20
1,3-Dichlorobenzene	ND	1.0	67	67	0.0				30 - 130	20
1,4-Dichlorobenzene	ND	1.0	67	68	1.5				30 - 130	20
2,4,5-Trichlorophenol	ND	1.0	95	93	2.1				30 - 130	20
2,4,6-Trichlorophenol	ND	1.0	93	93	0.0				30 - 130	20
2,4-Dichlorophenol	ND	1.0	84	83	1.2				30 - 130	20
2,4-Dimethylphenol	ND	1.0	87	83	4.7				30 - 130	20
2,4-Dinitrophenol	ND	1.0	97	101	4.0				30 - 130	20
2,4-Dinitrotoluene	ND	3.5	98	100	2.0				30 - 130	20
2,6-Dinitrotoluene	ND	3.5	96	97	1.0				30 - 130	20
2-Chloronaphthalene	ND	3.5	83	80	3.7				30 - 130	20
2-Chlorophenol	ND	1.0	72	71	1.4				30 - 130	20
2-Methylnaphthalene	ND	0.05	85	86	1.2				30 - 130	20
2-Methylphenol (o-cresol)	ND	1.0	77	74	4.0				30 - 130	20
2-Nitroaniline	ND	3.5	103	100	3.0				30 - 130	20
2-Nitrophenol	ND	1.0	82	79	3.7				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	1.0	84	80	4.9				30 - 130	20
3,3'-Dichlorobenzidine	ND	5.0	58	59	1.7				30 - 130	20
3-Nitroaniline	ND	5.0	90	92	2.2				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	1.0	100	109	8.6				30 - 130	20
4-Bromophenyl phenyl ether	ND	3.5	95	94	1.1				30 - 130	20
4-Chloro-3-methylphenol	ND	1.0	98	94	4.2				30 - 130	20
4-Chloroaniline	ND	3.5	93	85	9.0				30 - 130	20
4-Chlorophenyl phenyl ether	ND	1.0	88	93	5.5				30 - 130	20
4-Nitroaniline	ND	5.0	98	89	9.6				30 - 130	20
4-Nitrophenol	ND	1.0	96	94	2.1				30 - 130	20
Acenaphthene	ND	0.05	85	81	4.8				30 - 130	20
Acenaphthylene	ND	0.02	84	81	3.6				30 - 130	20
Acetophenone	ND	5.0	86	83	3.6				30 - 130	20
Aniline	ND	3.5	77	74	4.0				30 - 130	20
Anthracene	ND	0.02	94	94	0.0				30 - 130	20
Benz(a)anthracene	ND	0.02	94	97	3.1				30 - 130	20
Benzidine	ND	4.5	40	41	2.5				30 - 130	20
Benzo(a)pyrene	ND	0.02	90	90	0.0				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	97	98	1.0				30 - 130	20
Benzo(ghi)perylene	ND	0.02	100	101	1.0				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	95	95	0.0				30 - 130	20
Benzoic acid	ND	10	62	58	6.7				30 - 130	20

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzyl butyl phthalate	ND	3.5	99	93	6.3				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	85	81	4.8				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	68	65	4.5				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	1.0	73	67	8.6				30 - 130	20
Bis(2-ethylhexyl)phthalate	0.18	0.05	95	90	5.4				30 - 130	20
Carbazole	ND	5.0	95	95	0.0				30 - 130	20
Chrysene	ND	0.02	99	97	2.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	101	102	1.0				30 - 130	20
Dibenzofuran	ND	3.5	90	90	0.0				30 - 130	20
Diethyl phthalate	ND	3.5	96	98	2.1				30 - 130	20
Dimethylphthalate	ND	3.5	91	93	2.2				30 - 130	20
Di-n-butylphthalate	ND	3.5	100	96	4.1				30 - 130	20
Di-n-octylphthalate	ND	3.5	98	92	6.3				30 - 130	20
Fluoranthene	ND	0.04	96	98	2.1				30 - 130	20
Fluorene	ND	0.05	91	93	2.2				30 - 130	20
Hexachlorobenzene	ND	0.02	92	89	3.3				30 - 130	20
Hexachlorobutadiene	ND	0.05	75	77	2.6				30 - 130	20
Hexachlorocyclopentadiene	ND	3.5	47	49	4.2				30 - 130	20
Hexachloroethane	ND	0.05	66	65	1.5				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	98	99	1.0				30 - 130	20
Isophorone	ND	3.5	85	80	6.1				30 - 130	20
Naphthalene	ND	0.05	77	76	1.3				30 - 130	20
Nitrobenzene	ND	0.05	78	76	2.6				30 - 130	20
N-Nitrosodimethylamine	ND	3.5	68	65	4.5				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	86	82	4.8				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	84	85	1.2				30 - 130	20
Pentachloronitrobenzene	ND	0.10	95	92	3.2				30 - 130	20
Pentachlorophenol	ND	0.30	106	112	5.5				30 - 130	20
Phenanthrene	ND	0.05	96	93	3.2				30 - 130	20
Phenol	ND	1.0	70	66	5.9				30 - 130	20
Pyrene	ND	0.02	97	98	1.0				30 - 130	20
Pyridine	ND	0.50	49	47	4.2				30 - 130	20
% 2,4,6-Tribromophenol	87	%	93	82	12.6				30 - 130	20
% 2-Fluorobiphenyl	80	%	76	76	0.0				30 - 130	20
% 2-Fluorophenol	73	%	55	54	1.8				30 - 130	20
% Nitrobenzene-d5	83	%	74	70	5.6				30 - 130	20
% Phenol-d5	78	%	63	61	3.2				30 - 130	20
% Terphenyl-d14	87	%	89	95	6.5				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 312223 (ug/L), QC Sample No: BJ37088 (BJ37679, BJ37680, BJ37683, BJ37684, BJ37686)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	98	107	8.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	97	105	7.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	96	103	7.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	103	102	1.0				70 - 130	30
1,1-Dichloroethane	ND	1.0	100	106	5.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	107	122	13.1				70 - 130	30
1,1-Dichloropropene	ND	1.0	109	118	7.9				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	78	81	3.8				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	97	99	2.0				70 - 130	30

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	1.0	83	89	7.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	93	104	11.2				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	75	89	17.1				70 - 130	30
1,2-Dibromoethane	ND	1.0	102	105	2.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	96	100	4.1				70 - 130	30
1,2-Dichloroethane	ND	1.0	94	95	1.1				70 - 130	30
1,2-Dichloropropane	ND	1.0	108	110	1.8				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	111	10.4				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	95	105	10.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	99	100	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	95	103	8.1				70 - 130	30
2,2-Dichloropropane	ND	1.0	98	112	13.3				70 - 130	30
2-Chlorotoluene	ND	1.0	102	111	8.5				70 - 130	30
2-Hexanone	ND	5.0	91	95	4.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	113	11.2				70 - 130	30
4-Chlorotoluene	ND	1.0	100	108	7.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	93	92	1.1				70 - 130	30
Acetone	ND	5.0	79	73	7.9				70 - 130	30
Acrylonitrile	ND	5.0	92	99	7.3				70 - 130	30
Benzene	ND	0.70	110	119	7.9				70 - 130	30
Bromobenzene	ND	1.0	100	106	5.8				70 - 130	30
Bromochloromethane	ND	1.0	101	105	3.9				70 - 130	30
Bromodichloromethane	ND	0.50	102	103	1.0				70 - 130	30
Bromoform	ND	1.0	99	103	4.0				70 - 130	30
Bromomethane	ND	1.0	67	73	8.6				70 - 130	30
Carbon Disulfide	ND	1.0	114	125	9.2				70 - 130	30
Carbon tetrachloride	ND	1.0	98	108	9.7				70 - 130	30
Chlorobenzene	ND	1.0	104	112	7.4				70 - 130	30
Chloroethane	ND	1.0	96	102	6.1				70 - 130	30
Chloroform	ND	1.0	96	100	4.1				70 - 130	30
Chloromethane	ND	1.0	77	84	8.7				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	103	106	2.9				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	108	111	2.7				70 - 130	30
Dibromochloromethane	ND	0.50	98	104	5.9				70 - 130	30
Dibromomethane	ND	1.0	101	100	1.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	107	118	9.8				70 - 130	30
Ethylbenzene	ND	1.0	107	119	10.6				70 - 130	30
Hexachlorobutadiene	ND	0.40	93	101	8.2				70 - 130	30
Isopropylbenzene	ND	1.0	105	117	10.8				70 - 130	30
m&p-Xylene	ND	1.0	104	115	10.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	80	85	6.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	95	97	2.1				70 - 130	30
Methylene chloride	ND	1.0	102	106	3.8				70 - 130	30
Naphthalene	ND	1.0	85	83	2.4				70 - 130	30
n-Butylbenzene	ND	1.0	94	107	12.9				70 - 130	30
n-Propylbenzene	ND	1.0	98	112	13.3				70 - 130	30
o-Xylene	ND	1.0	108	118	8.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	101	114	12.1				70 - 130	30
sec-Butylbenzene	ND	1.0	105	118	11.7				70 - 130	30
Styrene	ND	1.0	105	112	6.5				70 - 130	30
tert-Butylbenzene	ND	1.0	102	113	10.2				70 - 130	30
Tetrachloroethene	ND	1.0	111	122	9.4				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	89	91	2.2				70 - 130	30

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Toluene	ND	1.0	107	114	6.3				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	110	120	8.7				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	104	105	1.0				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	92	96	4.3				70 - 130	30	
Trichloroethene	ND	1.0	112	119	6.1				70 - 130	30	
Trichlorofluoromethane	ND	1.0	98	108	9.7				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	111	125	11.9				70 - 130	30	
Vinyl chloride	ND	1.0	107	116	8.1				70 - 130	30	
% 1,2-dichlorobenzene-d4	95	%	96	95	1.0				70 - 130	30	
% Bromofluorobenzene	93	%	97	99	2.0				70 - 130	30	
% Dibromofluoromethane	87	%	89	90	1.1				70 - 130	30	
% Toluene-d8	100	%	97	98	1.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 312175 (mg/L), QC Sample No: BJ37683 (BJ37680, BJ37683, BJ37684, BJ37685)

TPH by GC (Extractable Products) - Ground Water

Ext. Petroleum HC	ND	0.070	91	86	5.6	126	111	12.7	30 - 130	30	
% n-Pentacosane	77	%	84	79	6.1	102	85	18.2	50 - 150	20	

QA/QC Batch 312248 (ug/L), QC Sample No: BJ37683 (BJ37683 (20X, 50X) , BJ37684 (20X) , BJ37685)

Volatiles - Ground Water

1,1,1,2-Tetrachloroethane	ND	1.0	92	96	4.3	106	103	2.9	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	95	96	1.0	112	109	2.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	84	98	15.4	98	101	3.0	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	82	96	15.7	99	101	2.0	70 - 130	30	
1,1-Dichloroethane	ND	1.0	92	93	1.1	102	101	1.0	70 - 130	30	
1,1-Dichloroethene	ND	1.0	129	127	1.6	142	149	4.8	70 - 130	30	m
1,1-Dichloropropene	ND	1.0	94	94	0.0	109	107	1.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	87	103	16.8	82	104	23.7	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	88	98	10.8	99	99	0.0	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	86	96	11.0	91	102	11.4	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	89	86	3.4	96	93	3.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	74	92	21.7	90	96	6.5	70 - 130	30	
1,2-Dibromoethane	ND	1.0	86	97	12.0	102	101	1.0	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	90	95	5.4	98	101	3.0	70 - 130	30	
1,2-Dichloroethane	ND	1.0	91	104	13.3	108	109	0.9	70 - 130	30	
1,2-Dichloropropane	ND	1.0	88	94	6.6	99	100	1.0	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	96	91	5.3	100	100	0.0	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	91	92	1.1	98	99	1.0	70 - 130	30	
1,3-Dichloropropane	ND	1.0	87	99	12.9	102	103	1.0	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	89	93	4.4	96	98	2.1	70 - 130	30	
2,2-Dichloropropane	ND	1.0	97	94	3.1	98	97	1.0	70 - 130	30	
2-Chlorotoluene	ND	1.0	94	90	4.3	97	97	0.0	70 - 130	30	
2-Hexanone	ND	5.0	71	90	23.6	88	93	5.5	70 - 130	30	
2-Isopropyltoluene	ND	1.0	94	90	4.3	100	99	1.0	70 - 130	30	
4-Chlorotoluene	ND	1.0	93	89	4.4	95	96	1.0	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	74	97	26.9	95	99	4.1	70 - 130	30	
Acetone	ND	5.0	81	102	23.0	103	102	1.0	70 - 130	30	
Acrylonitrile	ND	5.0	79	100	23.5	97	99	2.0	70 - 130	30	
Benzene	ND	0.70	94	95	1.1	103	102	1.0	70 - 130	30	
Bromobenzene	ND	1.0	89	92	3.3	96	99	3.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Bromochloromethane	ND	1.0	89	98	9.6	102	106	3.8	70 - 130	30	
Bromodichloromethane	ND	0.50	92	103	11.3	109	111	1.8	70 - 130	30	
Bromoform	ND	1.0	79	97	20.5	98	100	2.0	70 - 130	30	
Bromomethane	ND	1.0	123	115	6.7	81	108	28.6	70 - 130	30	
Carbon Disulfide	ND	1.0	145	138	4.9	150	163	8.3	70 - 130	30	l,m
Carbon tetrachloride	ND	1.0	96	94	2.1	112	111	0.9	70 - 130	30	
Chlorobenzene	ND	1.0	93	94	1.1	103	101	2.0	70 - 130	30	
Chloroethane	ND	1.0	130	122	6.3	134	133	0.7	70 - 130	30	m
Chloroform	ND	1.0	93	96	3.2	104	104	0.0	70 - 130	30	
Chloromethane	ND	1.0	86	82	4.8	90	92	2.2	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	92	94	2.2	103	103	0.0	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	88	98	10.8	101	100	1.0	70 - 130	30	
Dibromochloromethane	ND	0.50	89	100	11.6	105	105	0.0	70 - 130	30	
Dibromomethane	ND	1.0	85	99	15.2	101	103	2.0	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	82	81	1.2	101	98	3.0	70 - 130	30	
Ethylbenzene	ND	1.0	98	93	5.2	109	107	1.9	70 - 130	30	
Hexachlorobutadiene	ND	0.40	103	93	10.2	102	107	4.8	70 - 130	30	
Isopropylbenzene	ND	1.0	96	88	8.7	100	101	1.0	70 - 130	30	
m&p-Xylene	ND	1.0	96	91	5.3	105	102	2.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	73	100	31.2	94	101	7.2	70 - 130	30	r
Methyl t-butyl ether (MTBE)	ND	1.0	81	102	23.0	103	106	2.9	70 - 130	30	
Methylene chloride	ND	1.0	92	99	7.3	100	101	1.0	70 - 130	30	
Naphthalene	ND	1.0	87	104	17.8	121	126	4.0	70 - 130	30	
n-Butylbenzene	ND	1.0	91	86	5.6	96	95	1.0	70 - 130	30	
n-Propylbenzene	ND	1.0	89	82	8.2	92	91	1.1	70 - 130	30	
o-Xylene	ND	1.0	92	92	0.0	107	106	0.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	93	87	6.7	100	100	0.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	96	89	7.6	102	101	1.0	70 - 130	30	
Styrene	ND	1.0	89	94	5.5	101	101	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	95	88	7.7	99	100	1.0	70 - 130	30	
Tetrachloroethene	ND	1.0	97	96	1.0	112	108	3.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	75	99	27.6	95	100	5.1	70 - 130	30	
Toluene	ND	1.0	95	95	0.0	105	104	1.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	98	97	1.0	106	107	0.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	87	101	14.9	102	101	1.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	67	80	17.7	72	76	5.4	70 - 130	30	l
Trichloroethene	ND	1.0	97	95	2.1	107	105	1.9	70 - 130	30	
Trichlorofluoromethane	ND	1.0	106	105	0.9	130	127	2.3	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	112	112	0.0	134	135	0.7	70 - 130	30	m
Vinyl chloride	ND	1.0	87	86	1.2	122	103	16.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	96	100	4.1	99	102	3.0	70 - 130	30	
% Bromofluorobenzene	95	%	96	100	4.1	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	93	%	95	98	3.1	100	101	1.0	70 - 130	30	
% Toluene-d8	99	%	99	100	1.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 312099 (ug/L), QC Sample No: BJ37683 (BJ37683, BJ37684, BJ37685)

Polynuclear Aromatic HC - Ground Water

2-Methylnaphthalene	ND	0.05	89	91	2.2				30 - 130	20	
Acenaphthene	ND	0.05	75	76	1.3				30 - 130	20	
Acenaphthylene	ND	0.04	15	12	22.2				30 - 130	20	l,r
Anthracene	ND	0.05	82	82	0.0				30 - 130	20	

QA/QC Data

SDG I.D.: GBJ37679

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benz(a)anthracene	0.02	0.02	74	77	4.0				30 - 130	20	
Benzo(a)pyrene	ND	0.02	39	50	24.7				30 - 130	20	r
Benzo(b)fluoranthene	ND	0.02	88	91	3.4				30 - 130	20	
Benzo(ghi)perylene	ND	0.05	66	78	16.7				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	84	90	6.9				30 - 130	20	
Chrysene	ND	0.02	84	85	1.2				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	103	106	2.9				30 - 130	20	
Fluoranthene	ND	0.05	92	94	2.2				30 - 130	20	
Fluorene	ND	0.05	85	84	1.2				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	80	92	14.0				30 - 130	20	
Naphthalene	ND	0.05	73	74	1.4				30 - 130	20	
Phenanthrene	ND	0.05	83	84	1.2				30 - 130	20	
Pyrene	ND	0.05	66	72	8.7				30 - 130	20	
% 2-Fluorobiphenyl	76	%	72	72	0.0				30 - 130	20	
% Nitrobenzene-d5	80	%	82	83	1.2				30 - 130	20	
% Terphenyl-d14	95	%	78	80	2.5				30 - 130	20	

Comment:

MS/MSD is not reported for this batch.

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory lcs/lcsd specified recovery limits.
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 08, 2015

Sample Criteria Exceedences Report

GBJ37679 - FO

Criteria: CT: GAM, RC, RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BJ37683	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	15	0.14	0.077	0.077	ug/L
BJ37683	$8100SIMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	150	0.20	24	24	ug/L
BJ37683	$8100SIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.0	0.10	0.3	0.3	ug/L
BJ37684	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	14	0.14	0.077	0.077	ug/L
BJ37684	$8100SIMR	Naphthalene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	140	0.20	24	24	ug/L
BJ37685	$8100SIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	3.3	0.08	0.077	0.077	ug/L
BJ37685	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.007	0.004	0.004	0.004	mg/L
BJ37685	PB-WM10	Lead (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.083	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BJ37679, BJ37680, BJ37681, BJ37682, BJ37683, BJ37684, BJ37685, BJ37686

Sampling Date(s): 6/26/2015

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, SVOA Narration, SVOASIM 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, July 08, 2015

Printed Name: Ethan Lee

Position: Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

BJ37680, BJ37683, BJ37684, BJ37685 - The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Thallium, Vanadium.

BJ37683, BJ37684, BJ37685 - The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Au-fid11 06/29/15-1 (BJ37683)

The initial calibration (ETPH625I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (629A003_1) and contained the following outliers: None.

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/29/2015

Instrument: Aufid-d1 06/29/15-2 (BJ37680, BJ37683, BJ37684, BJ37685)

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

The initial calibration (ETPH617I) RSD for the compound list was less than 30% except for the following compounds: None.

As per section 7.2.3, a discrimination check standard was run (629B016_1) and contained the following outliers:
C36 (22%L)

The continuing calibration %D for the compound list was less than 30% except for the following compounds: None.

Printed Name Jeff Bucko
Position: Chemist
Date: 6/29/2015

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July 08, 2015

SDG I.D.: GBJ37679

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312175 ----------

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.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 06/30/15-1 (BJ37680, BJ37683, BJ37684)

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 Mike Arsenault
Position: Chemist
Date: 6/30/2015

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RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312358 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ36525, QA/QC Batch: 312493 ----------

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? No.

QC Batch 312276 (Samples: BJ37680, BJ37683, BJ37684) ----

The Laboratory Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aluminum)

Instrument: Blue 06/30/15-1 (BJ37680, BJ37683, BJ37684)

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: 6/30/2015

Instrument: Blue 07/01/15-1 (BJ37685)

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.

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RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

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: 7/1/2015

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312276 ----------

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.

QC (Batch Specific)

---------- Sample No: BJ31024, QA/QC Batch: 312100 ----------

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.

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RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

BJ37685 - The surrogate recovery is below the method criteria for %Terphenyl-d14. All other surrogates are acceptable, therefore no significant bias is suspected.

QC Batch 312099 (Samples: BJ37683, BJ37684, BJ37685): -----

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(BJ37683))

Analyte was found in blank. A high bias is suspected. (Benz(a)anthracene(BJ37684, BJ37685))

The LCS and/or LCSD recoveries for one or more analytes is below the method criteria. A low bias for these analytes is possible. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Acenaphthylene, Benzo(a)pyrene)

QC Batch 312105 (Samples: BJ37680): -----

A trace amount of an analyte was found in blank but were not reported in the sample(s), therefore no bias is suspected. (Bis(2-ethylhexyl)phthalate)

Instrument: Chem06 06/29/15-1 (BJ37683, BJ37684)

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/SV_0626):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (23%), Benzidine (22%), Di-n-octylphthalate (30%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0630_02-SV_0626):
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: Di-n-octylphthalate (41%L)[30%]
The following compounds did not meet maximum % deviations: Di-n-octylphthalate (41%L)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.064)[0.1], Hexachlorobenzene (.078)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/29/2015

Instrument: Chem12 07/01/15-1 (BJ37683)

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_0617):

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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 08, 2015

SDG I.D.: GBJ37679

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 (CHEM12/0701_02-sv_0617):
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 (.067)[0.1], Hexachlorobenzene (.090)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 7/1/2015

Instrument: Chem25 06/30/15-1 (BJ37680)

Initial Calibration Verification (CHEM25/SV_0629):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (31%), 4,6-Dinitro-2-methylphenol (22%), Benzidine (27%), Bis(2-ethylhexyl)phthalate (25%), Di-n-octylphthalate (25%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM25/0630_05-SV_0629):
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: 2,4-dinitrophenol (93%L)[30%], Benzoic Acid (34%L)[30%], Di-n-octylphthalate (35%L)[30%]
The following compounds did not meet maximum % deviations: 2,4-dinitrophenol (93%L)[40%]
The following compounds did not meet recommended response factors: 2-nitrophenol (.051)[0.1], Hexachlorobenzene (.074)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/30/2015

QC Comments: QC Batch 312099 06/26/15 (BJ37683, BJ37684)

MS/MSD is not reported for this batch.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312099 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(15%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(12%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(22.2%), Benzo(a)pyrene(24.7%)

QC (Batch Specific)

---------- Sample No: BJ34329, QA/QC Batch: 312105 ----------

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? No.

See SVOA Narration.

Instrument: Chem07 06/29/15-1 (BJ37680, BJ37683)

Initial Calibration Verification (CHEM07/SIM_0609):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Pentachlorophenol (27%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM07/0629_02-SIM_0609):
94% 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-nitrophenol (81%L)[30%], N-nitrosodimethylamine (84%L)[30%], Pentachlorophenol (77%L)[30%]
The following compounds did not meet maximum % deviations: 2-nitrophenol (81%L)[40%], N-nitrosodimethylamine (84%L)[40%], Pentachlorophenol (77%L)[40%]
The following compounds did not meet recommended response factors: 2-chlorophenol (.588)[0.8], Bis(2-chloroethyl)ether (.538)[0.7], Phenol (.737)[0.8]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/29/2015

Instrument: Chem07 06/30/15-1 (BJ37683, BJ37684, BJ37685)

Initial Calibration Verification (CHEM07/SIM_0609):
98% of target compounds met criteria.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

The following compounds had %RSDs >20%: Pentachlorophenol (27%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM07/0630_02-SIM_0609):
94% 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-nitrophenol (44%L)[30%], N-nitrosodimethylamine (62%L)[30%], Pentachlorophenol (47%L)[30%]
The following compounds did not meet maximum % deviations: 2-nitrophenol (44%L)[40%], N-nitrosodimethylamine (62%L)[40%], Pentachlorophenol (47%L)[40%]
The following compounds did not meet recommended response factors: 2-chlorophenol (.677)[0.8], Bis(2-chloroethyl)ether (.576)[0.7]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 6/30/2015

QC Comments: QC Batch 312099 06/26/15 (BJ37683, BJ37684, BJ37685)

MS/MSD is not reported for this batch.

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312099 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(15%)

All LCSD recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(12%)

All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(22.2%), Benzo(a)pyrene(24.7%)

QC (Batch Specific)

---------- Sample No: BJ34329, QA/QC Batch: 312105 ----------

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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 312223 (Samples: BJ37679, BJ37680, BJ37683, BJ37684, BJ37686): -----

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. (Bromomethane)

QC Batch 312248 (Samples: BJ37683, BJ37684, BJ37685): -----

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. (trans-1,4-dichloro-2-butene)

The MS and/or the MSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,1-Dichloroethene, Chloroethane, Trichlorotrifluoroethane)

The QC recovery for one or more analytes is above the upper range, therefore a slight high bias is possible. (Carbon Disulfide)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes that were not reported in the samples, therefore no sample variability is suspected. (Methyl ethyl ketone)

Instrument: Chem02 06/26/15-1 (BJ37679, BJ37680, BJ37683, BJ37684, BJ37685, BJ37686)

Initial Calibration Verification (CHEM02/VT-P0617):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Acetone (24%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM02/0626P02-VT-P0617):
99% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Bromomethane (42%H)[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 Michael Hahn
Position: Chemist
Date: 6/26/2015

Instrument: Chem17 06/26/15-2 (BJ37683, BJ37684, BJ37685)

Initial Calibration Verification (CHEM17/VT-S0623):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane (26%)
The following compounds did not meet a minimum response factor of 0.01: None.

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RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

Continuing Calibration Verification (CHEM17/0626S32-VT-S0623):
95% of target compounds met criteria. Internal standards were within the 50%-200% deviation from the continuing calibration. The following compounds did not meet % deviation criteria: Acetone (32%H)[30%], Methyl Ethyl Ketone (31%H)[30%], Tetrahydrofuran (thf) (32%H)[30%], Trans-1,4-dichloro-2-butene (32%H)[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 Michael Hahn
Position: Chemist
Date: 6/26/2015

QC Comments: QC Batch 312223 06/26/15 (BJ37679, BJ37680, BJ37683, BJ37684, BJ37686)

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

QC (Site Specific)

---------- Sample No: BJ37683, QA/QC Batch: 312248 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Carbon Disulfide(145%), trans-1,4-dichloro-2-butene(67%)

All LCSD recoveries were within 70 - 130 with the following exceptions: Carbon Disulfide(138%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: Methyl ethyl ketone(31.2%)

All MS recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(142%), Carbon Disulfide(150%), Chloroethane(134%), Trichlorotrifluoroethane(134%)

All MSD recoveries were within 70 - 130 with the following exceptions: 1,1-Dichloroethene(149%), Carbon Disulfide(163%), Chloroethane(133%), Trichlorotrifluoroethane(135%)

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: BJ37088, QA/QC Batch: 312223 ----------

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(67%)

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

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

July 08, 2015

SDG I.D.: GBJ37679

The samples were received at 5C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

5 w/ c+tp

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 33710

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Anocoil
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20041454.P30.2M
LABORATORY: Phoenix

REPORT TO: Kevin Vanderveer (F+O)
INVOICE TO: same
~~P.O. NO.~~: Quote: FO Ø4Ø315BA
Sampler's Signature: _____ Date: 6/26/15

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs (8260)	ET ETPH	PAHs (8270)	RCRA 8 metals + al cy ni zn	SVOCs full list (8270)	Filtered RCRA 8 metals + al cy ni zn	Hold	pH	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container (4) oz	Other:	Other: Plastic - HNO_3 unfiltered	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000 ml) ☒ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☒ Filtered ☐ 0.45µ	Plastic - NaOH, 250 ml ☒ 10µ	Comments
					1251150626-076	MW	6/26/15	0900	X													3						37679
					-077	↓		0950	X	X		X	X								1	3	3					37680
					-078	ST		1040							X				1									37681
					-079	↓		1045							X				1									37682
					-080	MW		1205	X	X	X	X									3	9	9					37683
					-081			1210	X	X	X	X									1	3	3					37684
					-082	↓		1315	X	X	X			X								3	3			1		37685
					-083	X	↓	1415	X													2						37686
					-084	MW	↓	1440								X						3						37687

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Cparadone	6/26/15	1540
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC / GA PMC / Res DEC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Wednesday, July 06, 2016

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BN56933 - BN56940

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.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 8:00 am, Jul 07, 2016

PHOENIX
Environmental Laboratories, Inc.

Monday, June 27, 2016

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BN56933 - BN56940

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.

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

REVIEWED **DMS**
By pbibeau at 8:00 am, Jul 07, 2016

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

SDG Comments

July 06, 2016

SDG I.D.: GBN56933

Version 2: Comments regarding GWPC were removed. PAH results for BN56935 (1306160616-03) and BN56936 (1306160616-04) were revised to include some concentrations slightly below the lowest calibration standard

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	10:32
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56933

Project ID: ANOCOIL
Client ID: 1306160616-01

MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.013	0.010	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Chromium	0.003	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead	0.003	0.002	mg/L	1	06/17/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.10	0.070	mg/L	1	06/23/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	06/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	1.1	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthene	3.3	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthylene	0.24	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Anthracene	0.26	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluoranthene	0.07	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluorene	0.36	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)

Project ID: ANOCOIL MW-07 Phoenix I.D.: BN56933
Client ID: 1306160616-01

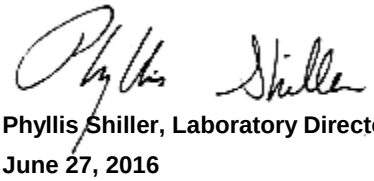
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Naphthalene	23	0.10	ug/L	1	06/22/16	DD	SW8270D (SIM)
Phenanthrene	0.53	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Pyrene	0.10	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	06/21/16	DD	30 - 130 %
% Nitrobenzene-d5	67		%	1	06/21/16	DD	30 - 130 %
% Terphenyl-d14	84		%	1	06/21/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

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
June 27, 2016
Reviewed and Released by: Ethan Lee, 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

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	11:16
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56934

Project ID: ANOCOIL
Client ID: 1306160616-02

MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.044	0.010	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	06/21/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/24/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/24/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	06/24/16	JRB	50 - 150 %
Client MS/MSD	Completed				06/23/16		
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthene	0.08	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluoranthene	0.15	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1306160616-02

MW-14

Phoenix I.D.: BN56934

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/21/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Pyrene	0.18	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	70		%	1	06/21/16	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	06/21/16	DD	30 - 130 %
% Terphenyl-d14	88		%	1	06/21/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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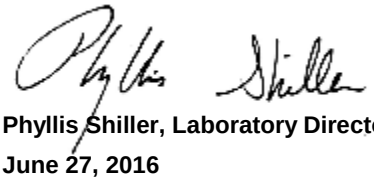

Phyllis Shiller, Laboratory Director
June 27, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	13:44
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56935

Project ID: ANOCOIL
Client ID: 1306160616-03 MW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.586	0.010	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Chromium	0.005	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead	0.003	0.002	mg/L	1	06/17/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1.4	0.070	mg/L	1	06/21/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/21/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	53		%	1	06/21/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	110	35	ug/L	10	06/22/16	D/P	SW8270D
Acenaphthene	33	20	ug/L	10	06/22/16	D/P	SW8270D
Acenaphthylene	25	20	ug/L	10	06/22/16	D/P	SW8270D
Anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benz(a)anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(a)pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(b)fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(ghi)perylene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(k)fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Chrysene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Dibenz(a,h)anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Fluorene	ND	35	ug/L	10	06/22/16	D/P	SW8270D

Project ID: ANOCOIL MW-13 Phoenix I.D.: BN56935
Client ID: 1306160616-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Naphthalene	640	35	ug/L	10	06/22/16	D/P	SW8270D
Phenanthrene	24	20	ug/L	10	06/22/16	D/P	SW8270D
Pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	06/22/16	D/P	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	06/22/16	D/P	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	06/22/16	D/P	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis; some compounds are evaluated below the lowest calibration standard.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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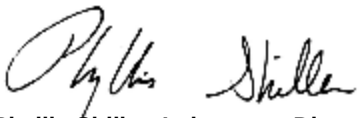

Phyllis Shiller, Laboratory Director
July 06, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

July 06, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	13:54
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56936

Project ID: ANOCOIL
Client ID: 1306160616-04

MW-13 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.539	0.010	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Chromium	0.005	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead	0.002	0.002	mg/L	1	06/17/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1.4	0.070	mg/L	1	06/21/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/21/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	51		%	1	06/21/16	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	89	35	ug/L	10	06/22/16	D/P	SW8270D
Acenaphthene	25	20	ug/L	10	06/22/16	D/P	SW8270D
Acenaphthylene	19	14	ug/L	10	06/22/16	D/P	SW8270D
Anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benz(a)anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(a)pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(b)fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(ghi)perylene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Benzo(k)fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Chrysene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Dibenz(a,h)anthracene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Fluoranthene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Fluorene	ND	35	ug/L	10	06/22/16	D/P	SW8270D

Project ID: ANOCOIL
Client ID: 1306160616-04 MW-13 Field Duplicate

Phoenix I.D.: BN56936

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
Naphthalene	530	35	ug/L	10	06/22/16	D/P	SW8270D
Phenanthrene	20	20	ug/L	10	06/22/16	D/P	SW8270D
Pyrene	ND	35	ug/L	10	06/22/16	D/P	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	06/22/16	D/P	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	06/22/16	D/P	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	06/22/16	D/P	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis; some compounds are evaluated below the lowest calibration standard.

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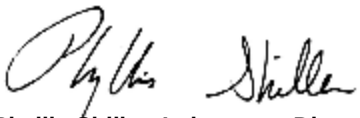

Phyllis Shiller, Laboratory Director
July 06, 2016
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	14:15
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56937

Project ID: ANOCOIL
Client ID: 1306160616-05 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.345	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic (10um)	0.006	0.004	mg/L	1	06/17/16	LK	SW6010C/E200.7
Chromium (10um)	0.003	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead (10um)	0.009	0.002	mg/L	1	06/17/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.078	mg/L	1	06/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	06/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	0.27	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthene	2.0	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthylene	0.36	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Anthracene	0.24	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.25	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.24	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.20	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.12	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.22	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Chrysene	0.28	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.05	0.01	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluoranthene	0.61	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluorene	0.63	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1306160616-05

MW-08

Phoenix I.D.: BN56937

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	0.12	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Naphthalene	0.81	0.10	ug/L	1	06/21/16	DD	SW8270D (SIM)
Phenanthrene	0.69	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Pyrene	0.80	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	06/21/16	DD	30 - 130 %
% Nitrobenzene-d5	73		%	1	06/21/16	DD	30 - 130 %
% Terphenyl-d14	49		%	1	06/21/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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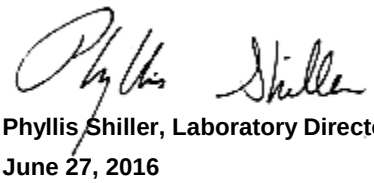

Phyllis Shiller, Laboratory Director
June 27, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	14:44
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56938

Project ID: ANOCOIL
Client ID: 1306160616-06 MW-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				06/20/16	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	06/23/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/17/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260

Project ID: ANOCOIL
Client ID: 1306160616-06

MW-11

Phoenix I.D.: BN56938

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/17/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Acetone	ND	25	ug/L	1	06/17/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/17/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloromethane	2.3	1.0	ug/L	1	06/17/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/17/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/17/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/17/16	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	06/17/16	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	06/17/16	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	06/17/16	MH	70 - 130 %
% Toluene-d8	101		%	1	06/17/16	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.08	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.06	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.07	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Chrysene	0.07	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluoranthene	0.10	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Naphthalene	ND	0.12	ug/L	1	06/21/16	DD	SW8270D (SIM)
Phenanthrene	0.06	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
Pyrene	0.11	0.06	ug/L	1	06/21/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	06/21/16	DD	30 - 130 %
% Nitrobenzene-d5	47		%	1	06/21/16	DD	30 - 130 %
% Terphenyl-d14	86		%	1	06/21/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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Phyllis Shiller, Laboratory Director
June 27, 2016
Reviewed and Released by: Ethan Lee, 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

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	15:10
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56939

Project ID: ANOCOIL
Client ID: 1306160616-07 MW-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	1.38	0.010	mg/L	1	06/17/16	EK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/17/16	EK	SW6010C/E200.7
Chromium	0.001	0.001	mg/L	1	06/17/16	EK	SW6010C/E200.7
Lead	0.005	0.002	mg/L	1	06/17/16	EK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/17/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/16/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	06/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)

Project ID: ANOCOIL MW-12 Phoenix I.D.: BN56939
Client ID: 1306160616-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	06/21/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	06/21/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	47		%	1	06/21/16	DD	30 - 130 %
% Nitrobenzene-d5	32		%	1	06/21/16	DD	30 - 130 %
% Terphenyl-d14	79		%	1	06/21/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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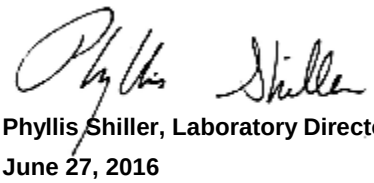

Phyllis Shiller, Laboratory Director
June 27, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 27, 2016

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/16/16	15:30
Location Code:	F&O	Received by:	SW	06/16/16	16:28
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBN56933
Phoenix ID: BN56940

Project ID: ANOCOIL
Client ID: 1306160616-08

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/17/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/17/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/17/16	MH	SW8260

Project ID: ANOCOIL
Client ID: 1306160616-08

Trip Blank

Phoenix I.D.: BN56940

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/17/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/17/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/17/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/17/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/17/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/17/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/17/16	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/17/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/17/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	06/17/16	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	06/17/16	MH	70 - 130 %
% Dibromofluoromethane	106		%	1	06/17/16	MH	70 - 130 %

Project ID: ANOCOIL
Client ID: 1306160616-08

Trip Blank

Phoenix I.D.: BN56940

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	103		%	1	06/17/16	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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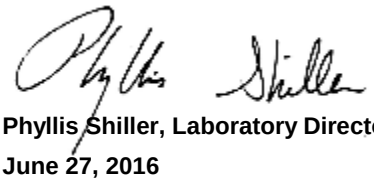

Phyllis Shiller, Laboratory Director
June 27, 2016
Reviewed and Released by: Ethan Lee, Project Manager

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

June 27, 2016

QA/QC Data

SDG I.D.: GBN56933

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 349344 (mg/L), QC Sample No: BN56934 (BN56933, BN56934, BN56935, BN56936, BN56937, BN56939)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.044	0.039	NC	93.1			99.2			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	94.6			97.1			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	98.0			96.7			75 - 125	20
Lead	BRL	0.002	<0.002	0.002	NC	97.2			96.7			75 - 125	20

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QA/QC Report

June 27, 2016

QA/QC Data

SDG I.D.: GBN56933

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 349670 (mg/L), QC Sample No: BN56934 (BN56933, BN56934, BN56935, BN56936, BN56937, BN56938, BN56939)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C.	ND	0.070	61	71	15.2	66	61	7.9	60 - 120	30	
% n-Pentacosane	74	%	65	83	24.3	62	61	1.6	50 - 150	20	r
QA/QC Batch 349426 (ug/L), QC Sample No: BN56934 (BN56933, BN56934, BN56935, BN56936, BN56937, BN56938, BN56939)											
Semivolatiles by SIM - Water											
2-Methylnaphthalene	ND	0.05	73	66	10.1	80	85	6.1	30 - 130	20	
Acenaphthene	ND	0.05	83	73	12.8	69	73	5.6	30 - 130	20	
Acenaphthylene	ND	0.04	100	87	13.9	79	83	4.9	30 - 130	20	
Anthracene	ND	0.02	86	77	11.0	74	78	5.3	30 - 130	20	
Benz(a)anthracene	ND	0.02	89	80	10.7	82	87	5.9	30 - 130	20	
Benzo(a)pyrene	ND	0.02	77	67	13.9	77	82	6.3	30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	91	81	11.6	88	91	3.4	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	83	76	8.8	76	83	8.8	30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	91	80	12.9	76	87	13.5	30 - 130	20	
Chrysene	ND	0.02	91	82	10.4	83	87	4.7	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	82	76	7.6	86	93	7.8	30 - 130	20	
Fluoranthene	ND	0.04	84	75	11.3	80	86	7.2	30 - 130	20	
Fluorene	ND	0.05	84	74	12.7	71	74	4.1	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	83	76	8.8	81	87	7.1	30 - 130	20	
Naphthalene	ND	0.05	69	63	9.1	59	63	6.6	30 - 130	20	
Phenanthrene	ND	0.05	82	73	11.6	71	74	4.1	30 - 130	20	
Pyrene	ND	0.02	87	78	10.9	85	92	7.9	30 - 130	20	
% 2-Fluorobiphenyl	69	%	68	63	7.6	60	64	6.5	30 - 130	20	
% Nitrobenzene-d5	75	%	61	58	5.0	51	54	5.7	30 - 130	20	
% Terphenyl-d14	81	%	88	79	10.8	93	103	10.2	30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 349611 (ug/L), QC Sample No: BN56940 (BN56938, BN56940)											
Volatiles - Water											
1,1,1,2-Tetrachloroethane	ND	1.0	111	102	8.5				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	108	106	1.9				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	106	98	7.8				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	106	97	8.9				70 - 130	30	
1,1-Dichloroethane	ND	1.0	105	100	4.9				70 - 130	30	
1,1-Dichloroethene	ND	1.0	103	103	0.0				70 - 130	30	
1,1-Dichloropropene	ND	1.0	109	108	0.9				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	113	106	6.4				70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	107	99	7.8				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	111	106	4.6				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	103	101	2.0				70 - 130	30	

QA/QC Data

SDG I.D.: GBN56933

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dibromo-3-chloropropane	ND	1.0	105	95	10.0				70 - 130	30
1,2-Dibromoethane	ND	1.0	109	101	7.6				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	102	98	4.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	108	100	7.7				70 - 130	30
1,2-Dichloropropane	ND	1.0	101	95	6.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	102	1.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	102	98	4.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	107	97	9.8				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	102	97	5.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	104	106	1.9				70 - 130	30
2-Chlorotoluene	ND	1.0	104	102	1.9				70 - 130	30
2-Hexanone	ND	5.0	105	93	12.1				70 - 130	30
2-Isopropyltoluene	ND	1.0	108	119	9.7				70 - 130	30
4-Chlorotoluene	ND	1.0	100	98	2.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	103	95	8.1				70 - 130	30
Acetone	ND	5.0	95	95	0.0				70 - 130	30
Acrylonitrile	ND	5.0	119	114	4.3				70 - 130	30
Benzene	ND	0.70	104	98	5.9				70 - 130	30
Bromobenzene	ND	1.0	104	100	3.9				70 - 130	30
Bromochloromethane	ND	1.0	110	101	8.5				70 - 130	30
Bromodichloromethane	ND	0.50	111	104	6.5				70 - 130	30
Bromoform	ND	1.0	113	102	10.2				70 - 130	30
Bromomethane	ND	1.0	156	152	2.6				70 - 130	30
Carbon Disulfide	ND	1.0	111	108	2.7				70 - 130	30
Carbon tetrachloride	ND	1.0	110	110	0.0				70 - 130	30
Chlorobenzene	ND	1.0	103	97	6.0				70 - 130	30
Chloroethane	ND	1.0	129	126	2.4				70 - 130	30
Chloroform	ND	1.0	108	100	7.7				70 - 130	30
Chloromethane	ND	1.0	121	116	4.2				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	99	98	1.0				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	104	99	4.9				70 - 130	30
Dibromochloromethane	ND	0.50	112	104	7.4				70 - 130	30
Dibromomethane	ND	1.0	106	97	8.9				70 - 130	30
Dichlorodifluoromethane	ND	1.0	114	117	2.6				70 - 130	30
Ethylbenzene	ND	1.0	105	100	4.9				70 - 130	30
Hexachlorobutadiene	ND	0.40	105	109	3.7				70 - 130	30
Isopropylbenzene	ND	1.0	102	102	0.0				70 - 130	30
m&p-Xylene	ND	1.0	106	100	5.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	106	101	4.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	125	113	10.1				70 - 130	30
Methylene chloride	ND	1.0	102	94	8.2				70 - 130	30
Naphthalene	ND	1.0	119	109	8.8				70 - 130	30
n-Butylbenzene	ND	1.0	103	105	1.9				70 - 130	30
n-Propylbenzene	ND	1.0	99	98	1.0				70 - 130	30
o-Xylene	ND	1.0	106	101	4.8				70 - 130	30
p-Isopropyltoluene	ND	1.0	106	106	0.0				70 - 130	30
sec-Butylbenzene	ND	1.0	106	107	0.9				70 - 130	30
Styrene	ND	1.0	107	99	7.8				70 - 130	30
tert-Butylbenzene	ND	1.0	103	103	0.0				70 - 130	30
Tetrachloroethene	ND	1.0	101	101	0.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	117	115	1.7				70 - 130	30
Toluene	ND	1.0	102	98	4.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	106	101	4.8				70 - 130	30

QA/QC Data

SDG I.D.: GBN56933

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
trans-1,3-Dichloropropene	ND	0.40	105	97	7.9				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	108	113	4.5				70 - 130	30	
Trichloroethene	ND	1.0	104	101	2.9				70 - 130	30	
Trichlorofluoromethane	ND	1.0	130	131	0.8				70 - 130	30	l
Trichlorotrifluoroethane	ND	1.0	114	127	10.8				70 - 130	30	
Vinyl chloride	ND	1.0	120	118	1.7				70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	99	98	1.0				70 - 130	30	
% Bromofluorobenzene	98	%	102	100	2.0				70 - 130	30	
% Dibromofluoromethane	101	%	101	98	3.0				70 - 130	30	
% Toluene-d8	102	%	99	99	0.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

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
June 27, 2016

Sample Criteria Exceedences Report

GBN56933 - FO

Criteria: CT: RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN56933	$8100CTSIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.53	0.05	0.3	0.3	ug/L
BN56935	$8100WMR	Acenaphthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	33	20	6.1	6.1	ug/L
BN56935	$8100WMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	25	20	0.3	0.3	ug/L
BN56935	$8100WMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56935	$8100WMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56935	$8100WMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56935	$8100WMR	Benzo(ghi)perylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	4.92	4.92	ug/L
BN56935	$8100WMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56935	$8100WMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.01	0.01	ug/L
BN56935	$8100WMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	24	20	0.3	0.3	ug/L
BN56936	$8100WMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56936	$8100WMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	19	14	0.3	0.3	ug/L
BN56936	$8100WMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56936	$8100WMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56936	$8100WMR	Benzo(ghi)perylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	4.92	4.92	ug/L
BN56936	$8100WMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.3	0.3	ug/L
BN56936	$8100WMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	35	0.01	0.01	ug/L
BN56936	$8100WMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	20	20	0.3	0.3	ug/L
BN56936	$8100WMR	Acenaphthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	25	20	6.1	6.1	ug/L
BN56937	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.36	0.05	0.3	0.3	ug/L
BN56937	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.05	0.01	0.01	0.01	ug/L
BN56937	$8100CTSIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.69	0.05	0.3	0.3	ug/L
BN56937	AS-WM10	Arsenic (10um)	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BN56933, BN56934, BN56935, BN56936, BN56937, BN56938, BN56939, BN56940

Sampling Date(s): 6/16/2016

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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Wednesday, July 06, 2016

Printed Name: Ethan Lee

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

NY # 11301

RCP Certification Report

July 06, 2016

SDG I.D.: GBN56933

SDG Comments

BN56935, BN56936 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

For the ETPH run AU-XL1 on 06/21/16 (BN56936), the discrimination check standard did not meet criteria for the C30 and C36 alkanes. Since the TPH range in the samples is C9 to C24, no significant analytical bias is suspected.

QC Batch 349670 (Samples: BN56933, BN56934, BN56935, BN56936 BN56937, BN56938, BN56939) ----

The LCS/LCSD RPD exceeds method criteria for one or more surrogates, therefore there may be variability in the reported result. (%n-Pentacosane)

Instrument:

AUFID-D1 06/23/16-1 Jeff Bucko, Chemist 06/23/16

BN56933, BN56937, BN56938, BN56939

The initial calibration (ETPH614I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 06/21/16-1 Jeff Bucko, Chemist 06/21/16

BN56935

The initial calibration (ETPH613I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 06/21/16-2 Jeff Bucko, Chemist 06/21/16

BN56936

The initial calibration (ETPH613I) RSD for the compound list was less than 30% except for the following compounds: None.
As per section 7.2.3, a discrimination check standard was run and contained the following outliers: C30 36.3%L (20%), C36 154.6%L (20%)
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 06/23/16-2 Jeff Bucko, Chemist 06/23/16

BN56934

The initial calibration (ETPH609I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 349670 (BN56934)

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

July 06, 2016

SDG I.D.: GBN56933

ETPH Narration

BN56933, BN56934, BN56935, BN56936, BN56937, BN56938, BN56939

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(24.3%)
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.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/17/16 08:16 Emily Kolominskaya, Laura Kinnin, Chemist 06/17/16

BN56933, BN56934, BN56935, BN56936, BN56937, BN56939

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/21/16 22:34 Emily Kolominskaya, Chemist 06/21/16

BN56934

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 349344 (BN56934)

BN56933, BN56934, BN56935, BN56936, BN56937, BN56939

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM06 06/22/16-1 Damien Drobinski, Chemist 06/22/16

BN56933, BN56935, BN56936

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/SV_0621):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

July 06, 2016

SDG I.D.: GBN56933

SVOA Narration

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0622_02-SV_0621):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM07 06/21/16-1 Damien Drobinski, Chemist 06/21/16

BN56933, BN56934, BN56937, BN56938, BN56939

Initial Calibration Verification (CHEM07/SIM_0614):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0621_02-SIM_0614):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 349426 (BN56934)

BN56933, BN56934, BN56935, BN56936, BN56937, BN56938, BN56939

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

July 06, 2016

SDG I.D.: GBN56933

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 349611 (Samples: BN56938, BN56940): -----

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, Trichlorofluoromethane)

Instrument:

CHEM02 06/17/16-1 Michael Hahn, Chemist 06/17/16

BN56938, BN56940

Initial Calibration Verification (CHEM02/VT-P0613):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 27% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.029 (0.05), 2-Hexanone 0.038 (0.1), 4-Methyl-2-pentanone 0.054 (0.1), Acetone 0.027 (0.1), Acrylonitrile 0.026 (0.05), Bromoform 0.096 (0.1), Methyl ethyl ketone 0.033 (0.1), Tetrahydrofuran (THF) 0.020 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0617P05-VT-P0613):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.245 (0.3), 1,2-Dibromo-3-chloropropane 0.030 (0.05), Acrylonitrile 0.033 (0.05), Tetrahydrofuran (THF) 0.022 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 349611 (BN56940)

BN56938, BN56940

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(156%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(152%), Trichlorofluoromethane(131%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 6C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6 OUCIFP

CHAIN-OF-CUSTODY RECORD 34476

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil	Rockville, CT	20014454.P60	Phoenix

REPORT TO: Kevin VanderVeer, FAO
INVOICE TO:
P.O. NO.:
Sampler's Signature: Mike Mety Date: 6/16/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH	PAHs	VOCs	As, Cr, Pb	56933	56934	56935	56936	56937	56938	56939	56940	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other: P2O HNO3	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000) ml, ☒ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☒ Filtered ☐ 0.45µ ☒ 10µ	Plastic - NaOH, 250 ml	Comments
01		130616061 6-01	MW	6/16/16	1032	X	X		X												1		3						
02		-02			1116	X	X		X												3		9						MS/MSD
03		-03			1344	X	X		X												1		3						
04		-04			1354	X	X		X												1		3						No charge
05		-05			1415	X	X		X														3				1		
06		-06			1444	X	X	X													~~2~~ 3		3						
07		-07			1510	X	X		X												1	0	3						
08		-08	X		1530			X														2							TB

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Mike Mety	[signature]	6/16/16	16:28
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
Res. VC, SWPC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Friday, June 24, 2016

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL
Sample ID#s: BN57115 - BN57117

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.

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

REVIEWED **DMS**
By pbibeau at 10:53 am, Jul 01, 2016

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 24, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/17/16	9:02
Location Code:	F&O	Received by:	LB	06/17/16	11:53
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN57115
Phoenix ID: BN57115

Project ID: ANOCOIL
Client ID: 1306160617-09 MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.520	0.004	mg/L	1	06/18/16	LK	SW6010C/E200.7
Arsenic (10um)	0.015	0.004	mg/L	1	06/18/16	LK	SW6010C/E200.7
Chromium (10um)	0.019	0.001	mg/L	1	06/18/16	LK	SW6010C/E200.7
Lead (10um)	0.004	0.002	mg/L	1	06/18/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/20/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/17/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.63	0.088	mg/L	1	06/22/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	06/22/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	58		%	1	06/22/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthylene	0.20	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Anthracene	0.14	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.06	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1306160617-09

MW-03

Phoenix I.D.: BN57115

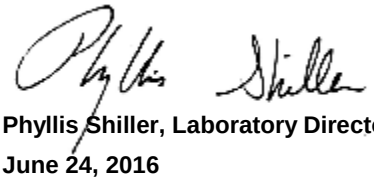
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	06/22/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Pyrene	0.10	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	74		%	1	06/22/16	DD	30 - 130 %
% Nitrobenzene-d5	84		%	1	06/22/16	DD	30 - 130 %
% Terphenyl-d14	104		%	1	06/22/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C12 to C30. 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
June 24, 2016
Reviewed and Released by: Ethan Lee, 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

June 24, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/17/16	9:35
Location Code:	F&O	Received by:	LB	06/17/16	11:53
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN57115
Phoenix ID: BN57116

Project ID: ANOCOIL
Client ID: 1306160617-10 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.545	0.004	mg/L	1	06/18/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	06/18/16	LK	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	06/18/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	06/18/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/20/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/17/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/22/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/22/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	06/22/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Anthracene	0.08	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.09	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Chrysene	0.09	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluoranthene	0.20	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluorene	0.07	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1306160617-10 MW-04

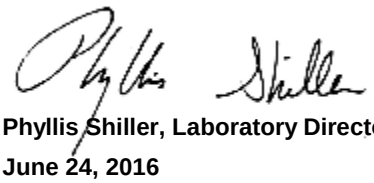
Phoenix I.D.: BN57116

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Naphthalene	ND	0.12	ug/L	1	06/22/16	DD	SW8270D (SIM)
Phenanthrene	0.12	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
Pyrene	0.31	0.06	ug/L	1	06/22/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	06/22/16	DD	30 - 130 %
% Nitrobenzene-d5	44		%	1	06/22/16	DD	30 - 130 %
% Terphenyl-d14	92		%	1	06/22/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
June 24, 2016
Reviewed and Released by: Ethan Lee, 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

June 24, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	06/17/16	9:46
Location Code:	F&O	Received by:	LB	06/17/16	11:53
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBN57115
Phoenix ID: BN57117

Project ID: ANOCOIL
Client ID: 1306160617-11

MW-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	29.4	0.020	mg/L	2	06/22/16	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	06/18/16	LK	SW6010C/E200.7
Chromium	0.001	0.001	mg/L	1	06/18/16	LK	SW6010C/E200.7
Lead	< 0.004	0.004	mg/L	2	06/22/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				06/20/16	P/UU/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/20/16	P/UU	SW3520C
Total Metals Digestion	Completed				06/17/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	06/22/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/22/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	06/22/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluoranthene	0.07	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)

Project ID: ANOCOIL
Client ID: 1306160617-11

MW-05

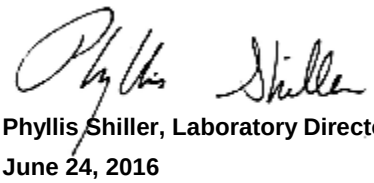
Phoenix I.D.: BN57117

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/22/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
Pyrene	0.07	0.05	ug/L	1	06/22/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	06/22/16	DD	30 - 130 %
% Nitrobenzene-d5	64		%	1	06/22/16	DD	30 - 130 %
% Terphenyl-d14	97		%	1	06/22/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
June 24, 2016
Reviewed and Released by: Ethan Lee, 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

June 24, 2016

QA/QC Data

SDG I.D.: GBN57115

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 349478 (mg/L), QC Sample No: BN57117 (BN57115, BN57116, BN57117)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	29.4	29.6	0.70	96.4			NC			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	95.8			98.6			75 - 125	20
Chromium	BRL	0.001	0.001	<0.001	NC	99.0			97.3			75 - 125	20
Lead	BRL	0.002	<0.004	<0.002	NC	97.1			95.3			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

June 24, 2016

QA/QC Data

SDG I.D.: GBN57115

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 349459 (mg/L), QC Sample No: BN56317 (BN57115, BN57116, BN57117)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum H.C.	ND	0.070	60	64	6.5				60 - 120	30
% n-Pentacosane	41	%	63	62	1.6				50 - 150	20
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
QA/QC Batch 349637 (ug/L), QC Sample No: BN57093 (BN57115, BN57116, BN57117)										
Semivolatiles by SIM - Water										
2-Methylnaphthalene	ND	0.05	56	60	6.9				30 - 130	20
Acenaphthene	ND	0.05	68	69	1.5				30 - 130	20
Acenaphthylene	ND	0.04	80	79	1.3				30 - 130	20
Anthracene	ND	0.02	73	72	1.4				30 - 130	20
Benz(a)anthracene	ND	0.02	76	74	2.7				30 - 130	20
Benzo(a)pyrene	ND	0.02	67	62	7.8				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	78	74	5.3				30 - 130	20
Benzo(ghi)perylene	ND	0.02	76	70	8.2				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	76	73	4.0				30 - 130	20
Chrysene	ND	0.02	79	76	3.9				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	76	65	15.6				30 - 130	20
Fluoranthene	ND	0.04	70	69	1.4				30 - 130	20
Fluorene	ND	0.05	69	70	1.4				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	77	68	12.4				30 - 130	20
Naphthalene	ND	0.05	51	56	9.3				30 - 130	20
Phenanthrene	ND	0.05	71	69	2.9				30 - 130	20
Pyrene	ND	0.02	73	71	2.8				30 - 130	20
% 2-Fluorobiphenyl	67	%	61	62	1.6				30 - 130	20
% Nitrobenzene-d5	65	%	49	54	9.7				30 - 130	20
% Terphenyl-d14	78	%	79	77	2.6				30 - 130	20
Comment:										
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.										
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%)										

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
June 24, 2016

Sample Criteria Exceedences Report

GBN57115 - FO

Criteria: CT: RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BN57115	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.015	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:** Fuss & O'Neill, Inc.

Project Location: ANOCOIL **Project Number:**

Laboratory Sample ID(s): BN57115, BN57116, BN57117

Sampling Date(s): 6/17/2016

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 achieved?	☑ 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee

Date: Friday, June 24, 2016

Printed Name: Ethan Lee

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

NY # 11301

RCP Certification Report

June 24, 2016

SDG I.D.: GBN57115

SDG Comments

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

Temperature above 6C:
The samples were received in a cooler with ice packs. The samples were delivered to the Laboratory within a short period of time after sample collection. Therefore no significant bias is suspected.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 06/21/16-1 Jeff Bucko, Chemist 06/21/16

BN57115, BN57116, BN57117

The initial calibration (ETPH621I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 349459 (BN56317)

BN57115, BN57116, BN57117

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.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 06/17/16 18:07 Laura Kinnin, Chemist 06/17/16

BN57115, BN57116, BN57117

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 06/21/16 22:34 Laura Kinnin, Chemist 06/21/16

BN57117

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

Certification Report

June 24, 2016

SDG I.D.: GBN57115

ICP Metals Narration

QC (Batch Specific):

Batch 349478 (BN57117)

BN57115, BN57116, BN57117

All LCS recoveries were within 75 - 125 with the following exceptions: None.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM04 06/22/16-1 Damien Drobinski, Chemist 06/22/16

BN57115, BN57116, BN57117

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 Verification (CHEM04/SIM_0616):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Methylnaphthalene 25% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0622_02-SIM_0616):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
94% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 349637 (BN57093)

BN57115, BN57116, BN57117

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 LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

June 24, 2016

SDG I.D.: GBN57115

Temperature Narration

The samples were received at 8C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

80 w/c 4P

CHAIN-OF-CUSTODY RECORD 34475

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Ano coil	Rockville, CT	20019454.P60	Phoenix

REPORT TO: Kevin van der veer, FTO
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Mike Mistry Date: 6/17/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	ETPH-CT	AAHs	As, Cr, Pb - Filtered	As, Cr, Pb - Total	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz ☐ $Na_2(SO_4)_2$	Other:	Other: P250 HNO_3	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (1000) ml X As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml X Filtered ☐ 0.45µ	Plastic - NaOH, 250 ml X TOT	Comments
01					1306160616-~~0~~09	MW	6/17/16	0902	X	X	X							3			1		57115
02					-10	↓	↓	0935	X	X	X							3			1		57116
03					-11	↓	↓	0946	X	X		X				1		3			3		57117

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Mike Mistry	Caradine	6/17/16	1153
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
Res. VC, SWPC
Additional Comments:

Sarah Bell

From: Paula M. Bibeau <PBibeau@fando.com>
Sent: Monday, June 20, 2016 9:34 AM
To: Sarah Bell
Cc: Kevin Vanderveer; Michael Mostowy
Subject: FW: Phoenix Labs - GBN57115, ANOCOIL - COC Acknowledgement
Attachments: Sample Acknowledgement.pdf

The F&O sample numbers in this SDG should all start with 1306160617-.

Thanks..
Paula Bibeau
Environmental Analyst
Fuss & O'Neill, Inc | 146 Hartford Road | Manchester, CT 06040
860.646.2469 x5371 | pbibeau@fando.com
www.fando.com | twitter | facebook | linkedin

From: clientservices@phoenixlabs.com [mailto:clientservices@phoenixlabs.com]
Sent: Monday, June 20, 2016 9:27 AM
To: Paula M. Bibeau
Subject: Phoenix Labs - GBN57115, ANOCOIL - COC Acknowledgement

Paula,

Delivery group GBN57115 (ANOCOIL) has been logged in for the following samples:

Phoenix Id	Client Id
BN57115	1306160616-09
BN57116	1306160616-10
BN57117	1306160616-11

The samples in this delivery group were received at 8°C. (Note acceptance criteria is above freezing up to 6°C)

If there are any questions regarding this submittal, please call Phoenix Client Services at extension 200.

Phoenix Environmental Laboratories, Inc.
587 East Middle Turnpike
P.O. Box 370
Manchester, CT 06374
Tel. (860) 645-1102
Fax. (860) 645-0823
www.phoenixlabs.com

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strictly prohibited. If you have received this communication in error, please notify the sender immediately by e-mail or telephone, and delete the original message immediately. Thank you.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, October 04, 2016

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BV18354 - BV18365

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.

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

REVIEWED **DMS**
By pbibeau at 10:16 am, Oct 06, 2016

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	8:45
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18354

Project ID: FORMER ANOCOIL
Client ID: 1358160919-01

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358160919-01

Trip Blank

Phoenix I.D.: BV18354

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	09/20/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	09/20/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	09/20/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	09/20/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	09/20/16	MH	70 - 130 %
% Bromofluorobenzene	101		%	1	09/20/16	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	09/20/16	MH	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358160919-01

Trip Blank

Phoenix I.D.: BV18354

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	09/20/16	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, 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

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	10:24
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18355

Project ID: FORMER ANOCOIL
Client ID: 1358160919-02 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.795	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Arsenic (10um)	0.008	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	0.007	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	0.019	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.075	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	0.83	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	0.33	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	0.08	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	0.06	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.29	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	0.08	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL MW-08 Phoenix I.D.: BV18355
Client ID: 1358160919-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	0.08	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.65	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	69		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	80		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	67		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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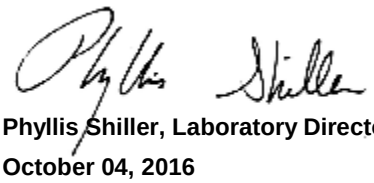

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	19:01
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18356

Project ID: FORMER ANOCOIL
Client ID: 1358160919-03 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.618	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.072	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	0.07	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	0.05	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	0.12	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.18	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.14	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.11	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.07	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.12	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	0.22	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.35	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	0.11	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-03

MW-04

Phoenix I.D.: BV18356

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	0.07	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	0.15	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.50	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	68		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	80		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	79		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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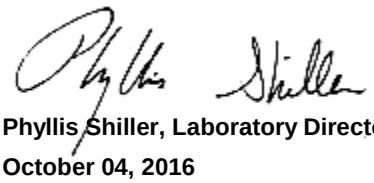

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	13:35
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18357

Project ID: FORMER ANOCOIL MW-03
Client ID: 1358160919-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	3.01	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Arsenic (10um)	0.026	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	0.077	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	0.017	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.72	0.074	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	54		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	0.35	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	0.12	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.16	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.23	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.11	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.16	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.18	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	0.18	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.05	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.10	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-04

MW-03

Phoenix I.D.: BV18357

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	0.12	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.12	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	0.06	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.38	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	33		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C10 to C30. 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.
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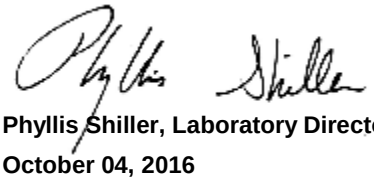

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	11:00
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18358

Project ID: FORMER ANOCOIL
Client ID: 1358160919-05 MW-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	52.6	0.040	mg/L	10	09/26/16	EK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-05

MW-05

Phoenix I.D.: BV18358

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	64		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	84		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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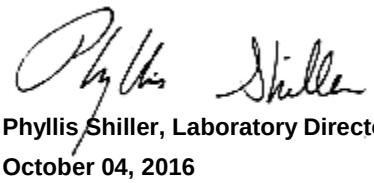

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	15:30
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18359

Project ID: FORMER ANOCOIL
Client ID: 1358160919-06 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.180	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	0.005	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.26	0.070	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	5.7	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	0.45	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	0.49	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.06	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.05	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	0.07	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.14	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	0.10	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-06

MW-07

Phoenix I.D.: BV18359

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	6.8	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	0.65	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.21	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	65		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	74		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	81		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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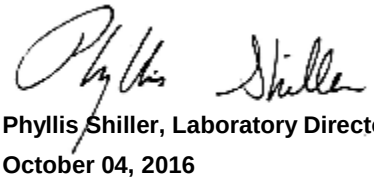

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	11:30
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18360

Project ID: FORMER ANOCOIL
Client ID: 1358160919-07 MW-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.911	0.004	mg/L	1	09/22/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/22/16	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	09/22/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/22/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.082	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	75		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-07

MW-12

Phoenix I.D.: BV18360

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	72		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	91		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	90		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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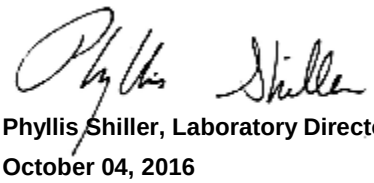

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	11:30
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18361

Project ID: FORMER ANOCOIL
Client ID: 1358160919-08 MW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.817	0.010	mg/L	1	09/22/16	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	09/22/16	LK	SW6010C/E200.7
Chromium	0.004	0.001	mg/L	1	09/22/16	LK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	09/22/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1.7	0.076	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	**		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	09/23/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trimethylbenzene	52	10	ug/L	10	09/20/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358160919-08

MW-13

Phoenix I.D.: BV18361

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3,5-Trimethylbenzene	13	1.0	ug/L	1	09/20/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Acetone	ND	25	ug/L	1	09/20/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Benzene	42	7.0	ug/L	10	09/20/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Ethylbenzene	230	10	ug/L	10	09/20/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Isopropylbenzene	70	10	ug/L	10	09/20/16	MH	SW8260
m&p-Xylene	120	10	ug/L	10	09/20/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Naphthalene	1100	50	ug/L	50	09/20/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
n-Propylbenzene	4.1	1.0	ug/L	1	09/20/16	MH	SW8260
o-Xylene	180	10	ug/L	10	09/20/16	MH	SW8260
p-Isopropyltoluene	12	1.0	ug/L	1	09/20/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Styrene	25	1.0	ug/L	1	09/20/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	09/20/16	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	65	10	ug/L	10	09/20/16	MH	SW8260
Total Xylenes	300	10	ug/L	10	09/20/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	95		%	1	09/20/16	MH	70 - 130 %
% Bromofluorobenzene	104		%	1	09/20/16	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	09/20/16	MH	70 - 130 %
% Toluene-d8	107		%	1	09/20/16	MH	70 - 130 %

Polynuclear Aromatic HC

2-Methylnaphthalene	63	39	ug/L	10	09/23/16	DD	SW8270D
Acenaphthene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Acenaphthylene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Anthracene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Benz(a)anthracene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Benzo(a)pyrene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Benzo(b)fluoranthene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Benzo(ghi)perylene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Benzo(k)fluoranthene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Chrysene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Dibenz(a,h)anthracene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Fluoranthene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Fluorene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Naphthalene	470	39	ug/L	10	09/23/16	DD	SW8270D
Phenanthrene	ND	39	ug/L	10	09/23/16	DD	SW8270D
Pyrene	ND	39	ug/L	10	09/23/16	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	10	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	09/23/16	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	09/23/16	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

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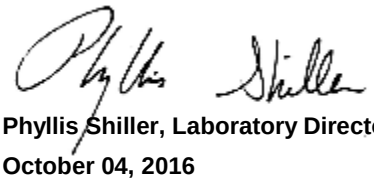

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	11:40
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18362

Project ID: FORMER ANOCOIL
Client ID: 1358160919-09

MW-12 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.901	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/26/16	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	09/26/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/26/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.078	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	09/23/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.09	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-09

MW-12 Field Duplicate

Phoenix I.D.: BV18362

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	0.15	0.11	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.09	0.06	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	76		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	94		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	94		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

DUPLICATE

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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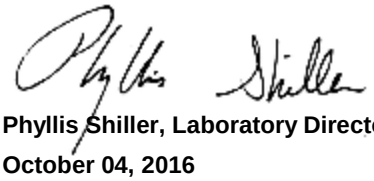

Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	14:45
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18363

Project ID: FORMER ANOCOIL
Client ID: 1358160919-10 MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	09/23/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	09/20/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260

Project ID: FORMER ANOCOIL MW-02 Phoenix I.D.: BV18363
Client ID: 1358160919-10

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Acetone	ND	25	ug/L	1	09/20/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	09/20/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	09/20/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	09/20/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	09/20/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	09/20/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	09/20/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	09/20/16	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	09/20/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	09/20/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	09/20/16	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	09/20/16	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	09/20/16	MH	70 - 130 %
% Toluene-d8	100		%	1	09/20/16	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	87		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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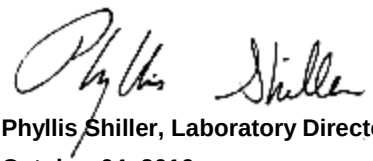


Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	14:00
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18364

Project ID: FORMER ANOCOIL
Client ID: 1358160919-11 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.092	0.004	mg/L	1	09/20/16	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	09/20/16	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	09/20/16	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	09/20/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				09/22/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
Total Metals Digestion	Completed				09/19/16	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.076	mg/L	1	09/23/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/23/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	09/23/16	JRB	50 - 150 %
Client MS/MSD	Completed				09/23/16		
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	0.23	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1358160919-11 MW-14

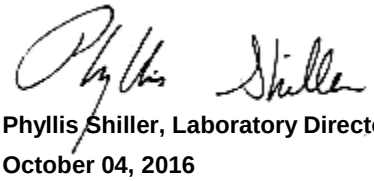
Phoenix I.D.: BV18364

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Fluorene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	0.30	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	89		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, 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

October 04, 2016

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		09/19/16	15:24
Location Code:	F&O	Received by:	LB	09/19/16	16:41
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.P60				

Laboratory Data

SDG ID: GBV18354
Phoenix ID: BV18365

Project ID: FORMER ANOCOIL MW-11
Client ID: 1358160919-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				09/23/16	P/K	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				09/21/16	P/R/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	09/26/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	09/26/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	09/26/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	09/21/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	09/21/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358160919-12

MW-11

Phoenix I.D.: BV18365

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	09/21/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	09/21/16	MH	SW8260
Acetone	ND	25	ug/L	1	09/21/16	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	09/21/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	09/21/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	09/21/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	09/21/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	09/21/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	09/21/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	09/21/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	09/21/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	09/21/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	09/21/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	09/21/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	09/21/16	MH	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	09/21/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	09/21/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	09/21/16	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	09/21/16	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	09/21/16	MH	70 - 130 %
% Toluene-d8	102		%	1	09/21/16	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	09/23/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	09/23/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	09/23/16	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	09/23/16	DD	30 - 130 %
% Terphenyl-d14	91		%	1	09/23/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
October 04, 2016
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
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QA/QC Report

October 04, 2016

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 359487 (mg/L), QC Sample No: BV18150 (BV18360, BV18361)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.126	0.117	7.40	97.4			98.8			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.5			97.7			75 - 125	20
Chromium	BRL	0.001	0.002	0.002	NC	101			100			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	101			99.7			75 - 125	20
QA/QC Batch 359347 (mg/L), QC Sample No: BV18364 (BV18355, BV18356, BV18357, BV18358, BV18359, BV18362, BV18364)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.092	0.012	NC	97.0			76.4			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	99.7			98.5			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.9			93.9			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	101			92.8			75 - 125	20

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QA/QC Report

October 04, 2016

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 359435 (ug/L), QC Sample No: BV16060 (BV18354, BV18361)											
Volatiles - Water											
1,1,1,2-Tetrachloroethane	ND	1.0	84	87	3.5	95	90	5.4	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	81	82	1.2	101	93	8.2	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	83	86	3.6	89	83	7.0	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	81	81	0.0	86	79	8.5	70 - 130	30	
1,1-Dichloroethane	ND	1.0	84	86	2.4	94	86	8.9	70 - 130	30	
1,1-Dichloroethene	ND	1.0	87	88	1.1	103	93	10.2	70 - 130	30	
1,1-Dichloropropene	ND	1.0	81	84	3.6	103	94	9.1	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	81	81	0.0	108	108	0.0	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	77	81	5.1	84	79	6.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	81	81	0.0	110	107	2.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	80	84	4.9	102	94	8.2	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	86	91	5.6	97	90	7.5	70 - 130	30	
1,2-Dibromoethane	ND	1.0	85	91	6.8	93	89	4.4	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	79	82	3.7	88	83	5.8	70 - 130	30	
1,2-Dichloroethane	ND	1.0	84	85	1.2	92	85	7.9	70 - 130	30	
1,2-Dichloropropane	ND	1.0	83	84	1.2	94	87	7.7	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	81	85	4.8	100	94	6.2	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	78	81	3.8	89	83	7.0	70 - 130	30	
1,3-Dichloropropane	ND	1.0	86	88	2.3	94	87	7.7	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	76	80	5.1	86	82	4.8	70 - 130	30	
2,2-Dichloropropane	ND	1.0	76	72	5.4	97	79	20.5	70 - 130	30	
2-Chlorotoluene	ND	1.0	80	85	6.1	97	90	7.5	70 - 130	30	
2-Hexanone	ND	5.0	90	90	0.0	97	92	5.3	70 - 130	30	
2-Isopropyltoluene	ND	1.0	89	94	5.5	113	104	8.3	70 - 130	30	
4-Chlorotoluene	ND	1.0	78	82	5.0	92	85	7.9	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	84	86	2.4	93	87	6.7	70 - 130	30	
Acetone	ND	5.0	81	84	3.6	122	102	17.9	70 - 130	30	
Acrylonitrile	ND	5.0	97	99	2.0	102	95	7.1	70 - 130	30	
Benzene	ND	0.70	83	86	3.6	100	91	9.4	70 - 130	30	
Bromobenzene	ND	1.0	80	84	4.9	93	86	7.8	70 - 130	30	
Bromochloromethane	ND	1.0	76	76	0.0	103	80	25.1	70 - 130	30	
Bromodichloromethane	ND	0.50	85	85	0.0	96	88	8.7	70 - 130	30	
Bromoform	ND	1.0	88	90	2.2	92	86	6.7	70 - 130	30	
Bromomethane	ND	1.0	109	117	7.1	63	86	30.9	70 - 130	30	m,r
Carbon Disulfide	ND	1.0	105	109	3.7	134	123	8.6	70 - 130	30	m
Carbon tetrachloride	ND	1.0	81	84	3.6	104	96	8.0	70 - 130	30	
Chlorobenzene	ND	1.0	79	83	4.9	93	86	7.8	70 - 130	30	
Chloroethane	ND	1.0	104	111	6.5	128	115	10.7	70 - 130	30	
Chloroform	ND	1.0	76	82	7.6	94	84	11.2	70 - 130	30	
Chloromethane	ND	1.0	113	117	3.5	126	112	11.8	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	84	85	1.2	101	92	9.3	70 - 130	30	

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	0.40	84	84	0.0	92	85	7.9	70 - 130	30	
Dibromochloromethane	ND	0.50	92	92	0.0	99	94	5.2	70 - 130	30	
Dibromomethane	ND	1.0	85	86	1.2	92	86	6.7	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	157	153	2.6	177	167	5.8	70 - 130	30	l,m
Ethylbenzene	ND	1.0	79	84	6.1	98	90	8.5	70 - 130	30	
Hexachlorobutadiene	ND	0.40	78	79	1.3	97	95	2.1	70 - 130	30	
Isopropylbenzene	ND	1.0	79	84	6.1	100	93	7.3	70 - 130	30	
m&p-Xylene	ND	1.0	80	84	4.9	99	90	9.5	70 - 130	30	
Methyl ethyl ketone	ND	5.0	86	89	3.4	103	98	5.0	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	95	95	0.0	104	95	9.0	70 - 130	30	
Methylene chloride	ND	1.0	84	86	2.4	94	86	8.9	70 - 130	30	
Naphthalene	ND	1.0	90	87	3.4	NC	NC	NC	70 - 130	30	
n-Butylbenzene	ND	1.0	80	82	2.5	101	94	7.2	70 - 130	30	
n-Propylbenzene	ND	1.0	74	79	6.5	92	85	7.9	70 - 130	30	
o-Xylene	ND	1.0	81	86	6.0	99	90	9.5	70 - 130	30	
p-Isopropyltoluene	ND	1.0	79	83	4.9	104	96	8.0	70 - 130	30	
sec-Butylbenzene	ND	1.0	79	83	4.9	99	93	6.3	70 - 130	30	
Styrene	ND	1.0	82	85	3.6	93	86	7.8	70 - 130	30	
tert-Butylbenzene	ND	1.0	78	82	5.0	99	92	7.3	70 - 130	30	
Tetrachloroethene	ND	1.0	77	79	2.6	92	85	7.9	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	95	102	7.1	99	90	9.5	70 - 130	30	
Toluene	ND	1.0	79	82	3.7	96	87	9.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	85	89	4.6	105	97	7.9	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	85	85	0.0	88	81	8.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	102	105	2.9	87	86	1.2	70 - 130	30	
Trichloroethene	ND	1.0	80	83	3.7	95	87	8.8	70 - 130	30	
Trichlorofluoromethane	ND	1.0	94	92	2.2	111	103	7.5	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	101	99	2.0	112	104	7.4	70 - 130	30	
Vinyl chloride	ND	1.0	109	108	0.9	132	122	7.9	70 - 130	30	m
% 1,2-dichlorobenzene-d4	100	%	99	99	0.0	97	98	1.0	70 - 130	30	
% Bromofluorobenzene	100	%	104	103	1.0	102	103	1.0	70 - 130	30	
% Dibromofluoromethane	96	%	99	98	1.0	96	99	3.1	70 - 130	30	
% Toluene-d8	103	%	99	99	0.0	99	99	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 359595 (ug/L), QC Sample No: BV18363 (BV18361 (10X, 50X) , BV18363)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	98	112	13.3				70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	93	106	13.1				70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	101	113	11.2				70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	102	113	10.2				70 - 130	30	
1,1-Dichloroethane	ND	1.0	95	109	13.7				70 - 130	30	
1,1-Dichloroethene	ND	1.0	97	111	13.5				70 - 130	30	
1,1-Dichloropropene	ND	1.0	96	108	11.8				70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	118	134	12.7				70 - 130	30	l
1,2,3-Trichloropropane	ND	1.0	99	112	12.3				70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	109	122	11.3				70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92	106	14.1				70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	105	123	15.8				70 - 130	30	
1,2-Dibromoethane	ND	1.0	100	113	12.2				70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	95	109	13.7				70 - 130	30	
1,2-Dichloroethane	ND	1.0	101	113	11.2				70 - 130	30	

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2-Dichloropropane	ND	1.0	98	111	12.4				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	92	105	13.2				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	95	108	12.8				70 - 130	30
1,3-Dichloropropane	ND	1.0	100	110	9.5				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	94	109	14.8				70 - 130	30
2,2-Dichloropropane	ND	1.0	95	109	13.7				70 - 130	30
2-Chlorotoluene	ND	1.0	94	108	13.9				70 - 130	30
2-Hexanone	ND	5.0	108	122	12.2				70 - 130	30
2-Isopropyltoluene	ND	1.0	96	111	14.5				70 - 130	30
4-Chlorotoluene	ND	1.0	90	105	15.4				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	108	117	8.0				70 - 130	30
Acetone	ND	5.0	83	93	11.4				70 - 130	30
Acrylonitrile	ND	5.0	112	117	4.4				70 - 130	30
Benzene	ND	0.70	97	110	12.6				70 - 130	30
Bromobenzene	ND	1.0	96	108	11.8				70 - 130	30
Bromochloromethane	ND	1.0	101	113	11.2				70 - 130	30
Bromodichloromethane	ND	0.50	103	115	11.0				70 - 130	30
Bromoform	ND	1.0	101	115	13.0				70 - 130	30
Bromomethane	ND	1.0	90	110	20.0				70 - 130	30
Carbon Disulfide	ND	1.0	98	111	12.4				70 - 130	30
Carbon tetrachloride	ND	1.0	98	109	10.6				70 - 130	30
Chlorobenzene	ND	1.0	95	110	14.6				70 - 130	30
Chloroethane	ND	1.0	92	105	13.2				70 - 130	30
Chloroform	ND	1.0	95	110	14.6				70 - 130	30
Chloromethane	ND	1.0	88	99	11.8				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	98	112	13.3				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	99	111	11.4				70 - 130	30
Dibromochloromethane	ND	0.50	103	117	12.7				70 - 130	30
Dibromomethane	ND	1.0	100	112	11.3				70 - 130	30
Dichlorodifluoromethane	ND	1.0	99	111	11.4				70 - 130	30
Ethylbenzene	ND	1.0	96	109	12.7				70 - 130	30
Hexachlorobutadiene	ND	0.40	96	110	13.6				70 - 130	30
Isopropylbenzene	ND	1.0	91	104	13.3				70 - 130	30
m&p-Xylene	ND	1.0	95	108	12.8				70 - 130	30
Methyl ethyl ketone	ND	5.0	105	109	3.7				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	105	120	13.3				70 - 130	30
Methylene chloride	ND	1.0	94	106	12.0				70 - 130	30
Naphthalene	ND	1.0	123	140	12.9				70 - 130	30
n-Butylbenzene	ND	1.0	95	110	14.6				70 - 130	30
n-Propylbenzene	ND	1.0	90	103	13.5				70 - 130	30
o-Xylene	ND	1.0	94	107	12.9				70 - 130	30
p-Isopropyltoluene	ND	1.0	93	106	13.1				70 - 130	30
sec-Butylbenzene	ND	1.0	95	109	13.7				70 - 130	30
Styrene	ND	1.0	99	113	13.2				70 - 130	30
tert-Butylbenzene	ND	1.0	92	104	12.2				70 - 130	30
Tetrachloroethene	ND	1.0	98	112	13.3				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	102	113	10.2				70 - 130	30
Toluene	ND	1.0	97	110	12.6				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	96	109	12.7				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	101	112	10.3				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	107	121	12.3				70 - 130	30
Trichloroethene	ND	1.0	98	113	14.2				70 - 130	30
Trichlorofluoromethane	ND	1.0	97	108	10.7				70 - 130	30

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Trichlorotrifluoroethane	ND	1.0	109	123	12.1				70 - 130	30
Vinyl chloride	ND	1.0	93	105	12.1				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	101	100	1.0				70 - 130	30
% Bromofluorobenzene	96	%	102	101	1.0				70 - 130	30
% Dibromofluoromethane	97	%	99	97	2.0				70 - 130	30
% Toluene-d8	100	%	102	99	3.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 359886 (mg/L), QC Sample No: BV18364 (BV18355, BV18356, BV18357, BV18358, BV18359, BV18360, BV18361, BV18362, BV18363, BV18364, BV18365)

TPH by GC (Extractable Products) - Water

Ext. Petroleum H.C.	ND	0.10	77	77	0.0	80	81	1.2	60 - 120	30
% n-Pentacosane	73	%	72	71	1.4	79	75	5.2	50 - 150	20

Comment:

Additional criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%.

QA/QC Batch 359709 (ug/L), QC Sample No: BV18364 (BV18355, BV18356, BV18357, BV18358, BV18359, BV18360, BV18361, BV18362, BV18363, BV18364, BV18365)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	69	72	4.3	82	92	11.5	30 - 130	20
Acenaphthene	ND	0.05	80	82	2.5	77	86	11.0	30 - 130	20
Acenaphthylene	ND	0.04	75	77	2.6	87	97	10.9	30 - 130	20
Anthracene	ND	0.02	83	86	3.6	79	89	11.9	30 - 130	20
Benz(a)anthracene	ND	0.02	75	78	3.9	70	79	12.1	30 - 130	20
Benzo(a)pyrene	ND	0.02	75	77	2.6	67	78	15.2	30 - 130	20
Benzo(b)fluoranthene	ND	0.02	78	84	7.4	98	111	12.4	30 - 130	20
Benzo(ghi)perylene	ND	0.02	81	81	0.0	60	67	11.0	30 - 130	20
Benzo(k)fluoranthene	ND	0.02	79	80	1.3	73	84	14.0	30 - 130	20
Chrysene	ND	0.02	78	80	2.5	74	83	11.5	30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	90	90	0.0	69	78	12.2	30 - 130	20
Fluoranthene	ND	0.04	83	86	3.6	79	89	11.9	30 - 130	20
Fluorene	ND	0.05	79	82	3.7	77	85	9.9	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	85	85	0.0	65	73	11.6	30 - 130	20
Naphthalene	ND	0.05	68	73	7.1	66	75	12.8	30 - 130	20
Phenanthrene	ND	0.05	78	82	5.0	73	82	11.6	30 - 130	20
Pyrene	ND	0.02	85	89	4.6	80	91	12.9	30 - 130	20
% 2-Fluorobiphenyl	73	%	71	73	2.8	69	78	12.2	30 - 130	20
% Nitrobenzene-d5	77	%	61	70	13.7	73	80	9.2	30 - 130	20
% Terphenyl-d14	86	%	92	97	5.3	86	100	15.1	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 359829 (ug/L), QC Sample No: BV18365 (BV18365)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	111	108	2.7				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	101	111	9.4				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	115	113	1.8				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	108	110	1.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	103	107	3.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	107	115	7.2				70 - 130	30
1,1-Dichloropropene	ND	1.0	105	116	10.0				70 - 130	30

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,3-Trichlorobenzene	ND	1.0	121	103	16.1				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	113	112	0.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	115	104	10.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	104	109	4.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	126	120	4.9				70 - 130	30
1,2-Dibromoethane	ND	1.0	113	113	0.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	107	108	0.9				70 - 130	30
1,2-Dichloroethane	ND	1.0	110	111	0.9				70 - 130	30
1,2-Dichloropropane	ND	1.0	107	108	0.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	105	110	4.7				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	108	109	0.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	112	112	0.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	108	110	1.8				70 - 130	30
2,2-Dichloropropane	ND	1.0	103	109	5.7				70 - 130	30
2-Chlorotoluene	ND	1.0	108	109	0.9				70 - 130	30
2-Hexanone	ND	5.0	125	116	7.5				70 - 130	30
2-Isopropyltoluene	ND	1.0	112	99	12.3				70 - 130	30
4-Chlorotoluene	ND	1.0	105	109	3.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	119	109	8.8				70 - 130	30
Acetone	ND	5.0	106	93	13.1				70 - 130	30
Acrylonitrile	ND	5.0	129	112	14.1				70 - 130	30
Benzene	ND	0.70	106	108	1.9				70 - 130	30
Bromobenzene	ND	1.0	108	108	0.0				70 - 130	30
Bromochloromethane	ND	1.0	105	108	2.8				70 - 130	30
Bromodichloromethane	ND	0.50	110	112	1.8				70 - 130	30
Bromoform	ND	1.0	113	111	1.8				70 - 130	30
Bromomethane	ND	1.0	79	75	5.2				70 - 130	30
Carbon Disulfide	ND	1.0	109	100	8.6				70 - 130	30
Carbon tetrachloride	ND	1.0	104	113	8.3				70 - 130	30
Chlorobenzene	ND	1.0	107	110	2.8				70 - 130	30
Chloroethane	ND	1.0	100	101	1.0				70 - 130	30
Chloroform	ND	1.0	102	106	3.8				70 - 130	30
Chloromethane	ND	1.0	92	94	2.2				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	104	108	3.8				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	108	110	1.8				70 - 130	30
Dibromochloromethane	ND	0.50	118	112	5.2				70 - 130	30
Dibromomethane	ND	1.0	108	108	0.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	128	125	2.4				70 - 130	30
Ethylbenzene	ND	1.0	106	112	5.5				70 - 130	30
Hexachlorobutadiene	ND	0.40	104	107	2.8				70 - 130	30
Isopropylbenzene	ND	1.0	103	112	8.4				70 - 130	30
m&p-Xylene	ND	1.0	106	110	3.7				70 - 130	30
Methyl ethyl ketone	ND	5.0	116	107	8.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	109	103	5.7				70 - 130	30
Methylene chloride	ND	1.0	102	103	1.0				70 - 130	30
Naphthalene	ND	1.0	130	110	16.7				70 - 130	30
n-Butylbenzene	ND	1.0	106	113	6.4				70 - 130	30
n-Propylbenzene	ND	1.0	101	111	9.4				70 - 130	30
o-Xylene	ND	1.0	106	110	3.7				70 - 130	30
p-Isopropyltoluene	ND	1.0	103	111	7.5				70 - 130	30
sec-Butylbenzene	ND	1.0	106	112	5.5				70 - 130	30
Styrene	ND	1.0	112	111	0.9				70 - 130	30
tert-Butylbenzene	ND	1.0	102	111	8.5				70 - 130	30

QA/QC Data

SDG I.D.: GBV18354

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Tetrachloroethene	ND	1.0	103	112	8.4				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	112	100	11.3				70 - 130	30
Toluene	ND	1.0	106	109	2.8				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	105	107	1.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	109	111	1.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	122	104	15.9				70 - 130	30
Trichloroethene	ND	1.0	106	109	2.8				70 - 130	30
Trichlorofluoromethane	ND	1.0	110	118	7.0				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	121	119	1.7				70 - 130	30
Vinyl chloride	ND	1.0	105	107	1.9				70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	98	100	2.0				70 - 130	30
% Bromofluorobenzene	96	%	102	101	1.0				70 - 130	30
% Dibromofluoromethane	95	%	97	99	2.0				70 - 130	30
% Toluene-d8	100	%	100	101	1.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

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
October 04, 2016

Sample Criteria Exceedences Report

GBV18354 - FO

Criteria: CT: RV, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BV18355	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.33	0.06	0.3	0.3	ug/L
BV18355	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.008	0.004	0.004	0.004	mg/L
BV18355	PB-WM10	Lead (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.019	0.002	0.013	0.013	mg/L
BV18356	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.02	0.01	0.01	0.01	ug/L
BV18357	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.35	0.06	0.3	0.3	ug/L
BV18357	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.05	0.01	0.01	0.01	ug/L
BV18357	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.026	0.004	0.004	0.004	mg/L
BV18357	PB-WM10	Lead (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.017	0.002	0.013	0.013	mg/L
BV18359	$8100CTSIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.65	0.05	0.3	0.3	ug/L
BV18359	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.45	0.05	0.3	0.3	ug/L
BV18361	$8100WMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Benzo(ghi)perylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	4.92	4.92	ug/L
BV18361	$8100WMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.3	0.3	ug/L
BV18361	$8100WMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	0.01	0.01	ug/L
BV18361	$8100WMR	Acenaphthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	39	6.1	6.1	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:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BV18354-BV18365 ***Sampling Date(s):*** 9/19/2016

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Tuesday, October 04, 2016

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 04, 2016

SDG I.D.: GBV18354

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

BV18361 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 09/23/16-1 Jeff Bucko, Chemist 09/23/16

BV18361, BV18362, BV18363, BV18364

The initial calibration (ETPH823I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 09/23/16-1 Jeff Bucko, Chemist 09/23/16

BV18355, BV18356, BV18357, BV18358, BV18359, BV18360

The initial calibration (ETPH909I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 09/26/16-2 Jeff Bucko, Chemist 09/26/16

BV18365

The initial calibration (ETPH909I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 359886 (BV18364)

BV18355, BV18356, BV18357, BV18358, BV18359, BV18360, BV18361, BV18362, BV18363, BV18364, BV18365

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.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

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ICP Metals Narration

ARCOS 09/21/16 18:38 Laura Kinnin, Chemist 09/21/16

BV18360, BV18361

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 09/26/16 14:29 Emily Kolominskaya, Chemist 09/26/16

BV18358

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 09/19/16 20:53 Laura Kinnin, Chemist 09/19/16

BV18364

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 09/26/16 06:01 Laura Kinnin, Chemist 09/26/16

BV18355, BV18356, BV18357, BV18358, BV18359, BV18362

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 359487 (BV18150)

BV18360, BV18361

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 359347 (BV18364)

BV18355, BV18356, BV18357, BV18358, BV18359, BV18362, BV18364

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SDG I.D.: GBV18354

ICP Metals Narration

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM12 09/23/16-1 Damien Drobinski, Chemist 09/23/16

BV18361

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_0914):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM12/0923_02-SV_0914):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 359709 (BV18364)

BV18355, BV18356, BV18357, BV18358, BV18359, BV18360, BV18361, BV18362, BV18363, BV18364, BV18365

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM04 09/23/16-1 Damien Drobinski, Chemist 09/23/16

BV18357

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in

SVOASIM Narration

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 Verification (CHEM04/SIM_0912):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0923_02-SIM_0912):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM07 09/22/16-1 Damien Drobinski, Chemist 09/22/16

BV18355, BV18356, BV18358, BV18359, BV18360, BV18362, BV18363, BV18364, BV18365

Initial Calibration Verification (CHEM07/SIM_0922):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0922_13-SIM_0922):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 359709 (BV18364)

BV18355, BV18356, BV18357, BV18358, BV18359, BV18360, BV18361, BV18362, BV18363, BV18364, BV18365

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid

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RCP Certification Report

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SVOASIM Narration

surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 359435 (Samples: BV18354, BV18361): -----

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (Dichlorodifluoromethane)

QC Batch 359595 (Samples: BV18361, BV18363): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,2,3-Trichlorobenzene)

The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Naphthalene)

Instrument:

CHEM02 09/19/16-2 Michael Hahn, Chemist 09/19/16

BV18354, BV18361

Initial Calibration Verification (CHEM02/VT-P0919):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Chloroethane 21% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.025 (0.05), 2-Hexanone 0.038 (0.1), 4-Methyl-2-pentanone 0.069 (0.1), Acetone 0.039 (0.1), Bromoform 0.090 (0.1), Methyl ethyl ketone 0.047 (0.1), Tetrahydrofuran (THF) 0.028 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0919P13-VT-P0919):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.226 (0.3), 1,2-Dibromo-3-chloropropane 0.026 (0.05), Bromoform 0.098 (0.1), Tetrahydrofuran (THF) 0.030 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM17 09/20/16-1 Michael Hahn, Chemist 09/20/16

BV18361, BV18363

Initial Calibration Verification (CHEM17/VT-S0918):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 23% (20%), Acrylonitrile 24% (20%), Bromomethane 23% (20%), trans-1,4-dichloro-2-butene 26% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.032 (0.05), 2-Hexanone 0.067 (0.1), 4-Methyl-2-pentanone 0.090 (0.1), Acetone 0.035 (0.1), Acrylonitrile 0.048 (0.05), Methyl ethyl ketone 0.054 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following compounds did not meet a 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

NY # 11301

RCP Certification Report

October 04, 2016

SDG I.D.: GBV18354

VOA Narration

Continuing Calibration Verification (CHEM17/0920S02-VT-S0918):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.289 (0.3), 1,2-Dibromo-3-chloropropane 0.035 (0.05), Tetrahydrofuran (THF) 0.043 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM17 09/21/16-1 Michael Hahn, Chemist 09/21/16

BV18365

Initial Calibration Verification (CHEM17/VT-S0918):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 23% (20%), Acrylonitrile 24% (20%), Bromomethane 23% (20%), trans-1,4-dichloro-2-butene 26% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.032 (0.05), 2-Hexanone 0.067 (0.1), 4-Methyl-2-pentanone 0.090 (0.1), Acetone 0.035 (0.1), Acrylonitrile 0.048 (0.05), Methyl ethyl ketone 0.054 (0.1), Tetrahydrofuran (THF) 0.042 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0921S02-VT-S0918):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Bromomethane 37%L (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.038 (0.05), Tetrahydrofuran (THF) 0.043 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 359435 (BV16060)

BV18354, BV18361

All LCS recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(157%)
All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(153%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 359595 (BV18363)

BV18361, BV18363

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(134%), Naphthalene(140%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 359829 (BV18365)

BV18365

All LCS recoveries were within 70 - 130 with the following exceptions: None.

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

October 04, 2016

SDG I.D.: GBV18354

VOA Narration

All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

4°W/ice

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 35787

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Former Arrocar
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20045454.A00
LABORATORY: Phoenix

REPORT TO: Kevin Vandiveer, F+O
INVOICE TO: ↓
P.O. No.:
Sampler's Signature: Mike Mosty Date: 9/19/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	Metals: ☒ Filtered Aluminum, Arsenic, Chromium, Lead Total Al, As, Cr, Pb	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) ☐ $Na(SO_4)_2$	Other:	Other: Plastic 250 ml HNO3	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber 1000 ml, ☒ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☒ Filtered ☐ 0.45µ ☒ 10µ	Plastic - NaOH, 250 ml	Comments
01					1358160919-01	~~MW~~	9/19/16	0845	X									2						18364
02					-02	MW		1024			X	X	X						3			1			18355
03					-03			0901			X	X	X						3			1			18356
04					-04			1333			X	X	X						3			1			18357
05					-05			1100			X	X	X						3			1			18358
06					-06			1530			X	X	X						3			1			18359
07					-07			1130			X	X	X						3			1			18360
08					-08			1130	X		X	X	X				1	3	3			≡			18361
09					-09			1140			X	X	X						3			1			18362 no Charge
10					-10	↓	↓	1445	X		X	X						3	3						18363

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Mike Mosty	Paradise	9/19/16	1641
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☐ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC
Additional Comments:

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

4°w/c ICE

CHAIN-OF-CUSTODY RECORD 35788

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other ____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME: Former Anocoil
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20014521.P60
LABORATORY: Phoenix

REPORT TO: Kevin Vanderee, F&O
INVOICE TO: ↓
P.O. No.:
Sampler's Signature: Michael Mosley Date: 9/19/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other _____

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	Metals: 2 Filtered Aluminum, Arsenic, Chromium, Lead	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is X HCl	Glass Amber (1000) ml X As is ☐ H2SO4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H2SO4, ☐ 250 ml ☐ 500 ml	Plastic - HNO3, 250 ml X Filtered ☐ 0.45µ X 10µ	Plastic - NaOH, 250 ml	Comments
11					1358160919-11	MW	9/19/16	1400		X	X	X						9		3	X		MS/MSD 18364
12					↓ -12	↓	↓	1524	X	X	X							3	3				18365

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Michael Mosley	Quadrine	9/19/16	1641
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
____ Duplicates ____ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Wednesday, January 04, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BX06080 - BX06090

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

REVIEWED **DMS**
By pbibeau at 3:10 pm, Jan 04, 2017

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

PHOENIX
Environmental Laboratories, Inc.

Tuesday, January 03, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BX06080 - BX06090

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

REVIEWED **DMS**
By pbibeau at 3:10 pm, Jan 04, 2017

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	10:00
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06080

Project ID: FORMER ANOCOIL
Client ID: 1306161215-01

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/16/16	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	12/16/16	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	12/16/16	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	12/16/16	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/16/16	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306161215-01

Trip Blank

Phoenix I.D.: BX06080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	12/16/16	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	12/16/16	MH	SW8260
Benzene	ND	0.70	ug/L	1	12/16/16	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	12/16/16	MH	SW8260
Bromoform	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	12/16/16	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Chloroform	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	12/16/16	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	12/16/16	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	12/16/16	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Styrene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/16/16	MH	SW8260
Toluene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	12/16/16	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/16/16	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/16/16	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	12/16/16	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	12/16/16	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	12/16/16	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	12/16/16	MH	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-01

Trip Blank

Phoenix I.D.: BX06080

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	101		%	1	12/16/16	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	11:23
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06081

Project ID: FORMER ANOCOIL MW-01
Client ID: 1306161215-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	< 0.010	0.010	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	12/16/16	TH	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.076	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	12/19/16	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	12/16/16	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306161215-02

MW-01

Phoenix I.D.: BX06081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	12/16/16	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Acetone	ND	25	ug/L	1	12/16/16	HM	SW8260
Acrylonitrile	ND	2.5	ug/L	1	12/16/16	HM	SW8260
Benzene	ND	0.70	ug/L	1	12/16/16	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
Bromoform	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloroform	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	12/16/16	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Styrene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/16/16	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306161215-02

MW-01

Phoenix I.D.: BX06081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Toluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
Total Xylenes	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	HM	SW8260	
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/16/16	HM	SW8260	
Trichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
Trichlorofluoromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
Vinyl chloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260	
QA/QC Surrogates								
% 1,2-dichlorobenzene-d4	99		%	1	12/16/16	HM	70 - 130 %	
% Bromofluorobenzene	95		%	1	12/16/16	HM	70 - 130 %	
% Dibromofluoromethane	99		%	1	12/16/16	HM	70 - 130 %	
% Toluene-d8	100		%	1	12/16/16	HM	70 - 130 %	
Client MS/MSD	Completed				12/16/16			

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Naphthalene	ND	0.11	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	30		%	1	12/16/16	DD	30 - 130 %	
% Nitrobenzene-d5	11		%	1	12/16/16	DD	30 - 130 %	3
% Terphenyl-d14	111		%	1	12/16/16	DD	30 - 130 %	

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	11:30
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06082

Project ID: FORMER ANOCOIL
Client ID: 1306161215-03 MW-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	36.9	0.10	mg/L	10	12/23/16	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium	0.003	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	12/16/16	MA	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.074	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	12/19/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-03

MW-05

Phoenix I.D.: BX06082

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	45		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	37		%	1	12/16/16	DD	30 - 130 %
% Terphenyl-d14	112		%	1	12/16/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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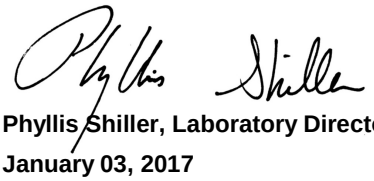

Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	11:40
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06083

Project ID: FORMER ANOCOIL
Client ID: 1306161215-04 MW-05 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	35.0	0.10	mg/L	10	12/23/16	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium	0.003	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.071	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	12/19/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-04

MW-05 Field Duplicate

Phoenix I.D.: BX06083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	12/16/16	DD	30 - 130 %
% Terphenyl-d14	108		%	1	12/16/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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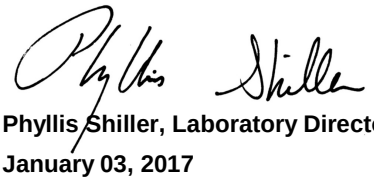

Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	11:20
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06084

Project ID: FORMER ANOCOIL
Client ID: 1306161215-05

MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.500	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium (10um)	0.003	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead (10um)	0.008	0.002	mg/L	1	12/16/16	TH	SW6010C/E200.7
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	12/16/16	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	12/16/16	HM	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306161215-05

MW-14

Phoenix I.D.: BX06084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,2-Dichloropropane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
2-Hexanone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Acetone	ND	25	ug/L	1	12/16/16	HM	SW8260
Acrylonitrile	ND	2.5	ug/L	1	12/16/16	HM	SW8260
Benzene	ND	0.70	ug/L	1	12/16/16	HM	SW8260
Bromobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromochloromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
Bromoform	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Bromomethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloroform	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Chloromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	HM	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	12/16/16	HM	SW8260
Dibromomethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	12/16/16	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
m&p-Xylene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Methylene chloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Naphthalene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Styrene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	12/16/16	HM	SW8260
Toluene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	12/16/16	HM	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	12/16/16	HM	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	12/16/16	HM	SW8260
Trichloroethene	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306161215-05

MW-14

Phoenix I.D.: BX06084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichlorotrifluoroethane	ND	1.0	ug/L	1	12/16/16	HM	SW8260
Vinyl chloride	ND	1.0	ug/L	1	12/16/16	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	12/16/16	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	12/16/16	HM	70 - 130 %
% Dibromofluoromethane	97		%	1	12/16/16	HM	70 - 130 %
% Toluene-d8	101		%	1	12/16/16	HM	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	0.10	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	0.24	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	2.8	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	1.2	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	4.8	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	5.0	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	4.5	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	2.5	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	3.7	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	4.7	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	1.1	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	9.1	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	0.34	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	3.0	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	2.6	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	10	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	56		%	1	12/16/16	DD	30 - 130 %
% Terphenyl-d14	85		%	1	12/16/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director

January 03, 2017

Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	12:00
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06085

Project ID: FORMER ANOCOIL
Client ID: 1306161215-06 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.478	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	0.07	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.11	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.06	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.06	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	0.09	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	0.29	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	0.07	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	0.43	0.06	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	45		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	24		%	1	12/16/16	DD	30 - 130 % 3

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-06

MW-04

Phoenix I.D.: BX06085

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Terphenyl-d14	104		%	1	12/16/16	DD	30 - 130 %

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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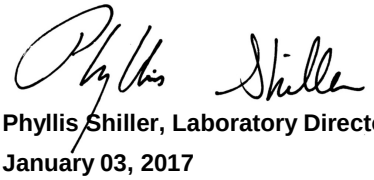

Phyllis Shiller, Laboratory Director

January 03, 2017

Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	12:34
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06086

Project ID: FORMER ANOCOIL
Client ID: 1306161215-07 MW-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.939	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.076	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	55		%	1	12/19/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	0.06	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	0.06	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.23	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.23	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.22	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.12	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.19	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	0.20	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.05	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	0.45	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Project ID: FORMER ANOCOIL
Client ID: 1306161215-07 MW-12

Phoenix I.D.: BX06086

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Indeno(1,2,3-cd)pyrene	0.14	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Phenanthrene	0.15	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Pyrene	0.42	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	42		%	1	12/16/16	DD	30 - 130 %	
% Nitrobenzene-d5	20		%	1	12/16/16	DD	30 - 130 %	3
% Terphenyl-d14	105		%	1	12/16/16	DD	30 - 130 %	

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	13:10
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06087

Project ID: FORMER ANOCOIL
Client ID: 1306161215-08 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.264	0.004	mg/L	1	12/21/16	MA	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	12/21/16	MA	SW6010C/E200.7
Chromium (10um)	0.002	0.001	mg/L	1	12/21/16	MA	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	12/21/16	MA	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/19/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/16/16	RVM/BF	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.074	mg/L	1	12/20/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/20/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	12/20/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	1.0	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	0.14	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	0.16	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.06	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	0.16	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	0.34	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-08

MW-08

Phoenix I.D.: BX06087

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Naphthalene	ND	0.11	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Phenanthrene	0.51	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
Pyrene	0.24	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2-Fluorobiphenyl	44		%	1	12/16/16	DD	30 - 130 %	
% Nitrobenzene-d5	25		%	1	12/16/16	DD	30 - 130 %	3
% Terphenyl-d14	98		%	1	12/16/16	DD	30 - 130 %	

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	12:28
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06088

Project ID: FORMER ANOCOIL
Client ID: 1306161215-09 MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	5.98	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic (10um)	0.025	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium (10um)	0.145	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead (10um)	0.037	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	0.14	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	0.40	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	0.20	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	0.39	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	0.34	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.20	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.16	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.26	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	0.34	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.06	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	0.38	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	0.17	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.15	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	0.17	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	1.3	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	12/16/16	DD	30 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-09 MW-03

Phoenix I.D.: BX06088

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
% Terphenyl-d14	29		%	1	12/16/16	DD	30 - 130 %	3

3 = This parameter exceeds laboratory specified limits.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Semi-Volatile Comment:
Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within QA/QC criteria. No significant bias suspected.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, 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

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	13:24
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06089

Project ID: FORMER ANOCOIL
Client ID: 1306161215-10 MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	< 0.010	0.010	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	74		%	1	12/19/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-10 MW-02

Phoenix I.D.: BX06089

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	51		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	51		%	1	12/16/16	DD	30 - 130 %
% Terphenyl-d14	106		%	1	12/16/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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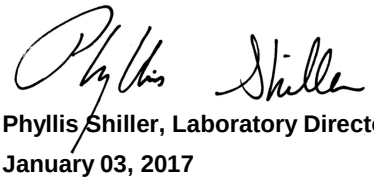

Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 03, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		12/15/16	13:25
Location Code:	F&O	Received by:	SW	12/15/16	15:20
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX06080
Phoenix ID: BX06090

Project ID: FORMER ANOCOIL
Client ID: 1306161215-11 MW-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.030	0.010	mg/L	1	12/16/16	TH	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	12/16/16	TH	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	12/16/16	TH	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	12/16/16	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				12/15/16	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				12/15/16	P/D	SW3520C
Total Metals Digestion	Completed				12/15/16	.G/RVM/A(	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	12/19/16	JRB	CTETPH 8015D
Identification	ND		mg/L	1	12/19/16	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	12/19/16	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1306161215-11 MW-11

Phoenix I.D.: BX06090

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	12/16/16	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	12/16/16	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	55		%	1	12/16/16	DD	30 - 130 %
% Nitrobenzene-d5	54		%	1	12/16/16	DD	30 - 130 %
% Terphenyl-d14	97		%	1	12/16/16	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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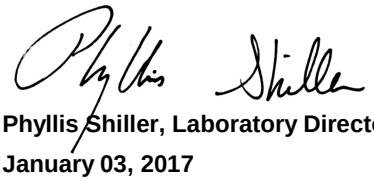

Phyllis Shiller, Laboratory Director
January 03, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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

January 03, 2017

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 370182 (mg/L), QC Sample No: BX06081 (BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06088, BX06089, BX06090)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	<0.010	<0.010	NC	94.4			98.1			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	96.5			98.5			75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	96.6			97.3			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	96.2			98.8			75 - 125	20
QA/QC Batch 370303 (mg/L), QC Sample No: BX06087 (BX06087)													
ICP Metals - Aqueous													
Aluminum	BRL	0.010	0.264	0.264	0	92.2			93.0			75 - 125	20
Arsenic	BRL	0.004	<0.004	<0.004	NC	93.7			92.7			75 - 125	20
Chromium	BRL	0.001	0.002	0.002	NC	94.7			94.1			75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	92.5			91.8			75 - 125	20

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QA/QC Report

January 03, 2017

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 370259 (ug/L), QC Sample No: BX05944 (BX06080)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	86	93	7.8				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	79	88	10.8				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	87	92	5.6				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	77	84	8.7				70 - 130	30
1,1-Dichloroethane	ND	1.0	79	88	10.8				70 - 130	30
1,1-Dichloroethene	ND	1.0	75	87	14.8				70 - 130	30
1,1-Dichloropropene	ND	1.0	77	88	13.3				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	88	95	7.7				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	83	90	8.1				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	88	95	7.7				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	86	92	6.7				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	90	97	7.5				70 - 130	30
1,2-Dibromoethane	ND	1.0	84	91	8.0				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	85	91	6.8				70 - 130	30
1,2-Dichloroethane	ND	1.0	79	85	7.3				70 - 130	30
1,2-Dichloropropane	ND	1.0	80	89	10.7				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	83	90	8.1				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	89	93	4.4				70 - 130	30
1,3-Dichloropropane	ND	1.0	84	90	6.9				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	84	90	6.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	81	83	2.4				70 - 130	30
2-Chlorotoluene	ND	1.0	89	94	5.5				70 - 130	30
2-Hexanone	ND	5.0	86	94	8.9				70 - 130	30
2-Isopropyltoluene	ND	1.0	91	99	8.4				70 - 130	30
4-Chlorotoluene	ND	1.0	87	94	7.7				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	76	86	12.3				70 - 130	30
Acetone	ND	5.0	70	76	8.2				70 - 130	30
Acrylonitrile	ND	5.0	87	91	4.5				70 - 130	30
Benzene	ND	0.70	80	88	9.5				70 - 130	30
Bromobenzene	ND	1.0	87	92	5.6				70 - 130	30
Bromochloromethane	ND	1.0	80	88	9.5				70 - 130	30
Bromodichloromethane	ND	0.50	80	87	8.4				70 - 130	30
Bromoform	ND	1.0	82	89	8.2				70 - 130	30
Bromomethane	ND	1.0	58	74	24.2				70 - 130	30
Carbon Disulfide	ND	1.0	87	101	14.9				70 - 130	30
Carbon tetrachloride	ND	1.0	79	90	13.0				70 - 130	30
Chlorobenzene	ND	1.0	86	92	6.7				70 - 130	30
Chloroethane	ND	1.0	84	98	15.4				70 - 130	30
Chloroform	ND	1.0	80	89	10.7				70 - 130	30
Chloromethane	ND	1.0	73	87	17.5				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	82	90	9.3				70 - 130	30

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	0.40	81	87	7.1				70 - 130	30	
Dibromochloromethane	ND	0.50	88	94	6.6				70 - 130	30	
Dibromomethane	ND	1.0	80	87	8.4				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	78	101	25.7				70 - 130	30	
Ethylbenzene	ND	1.0	85	93	9.0				70 - 130	30	
Hexachlorobutadiene	ND	0.40	87	97	10.9				70 - 130	30	
Isopropylbenzene	ND	1.0	82	91	10.4				70 - 130	30	
m&p-Xylene	ND	1.0	84	93	10.2				70 - 130	30	
Methyl ethyl ketone	ND	5.0	77	91	16.7				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	82	90	9.3				70 - 130	30	
Methylene chloride	ND	1.0	77	83	7.5				70 - 130	30	
Naphthalene	ND	1.0	97	106	8.9				70 - 130	30	
n-Butylbenzene	ND	1.0	80	90	11.8				70 - 130	30	
n-Propylbenzene	ND	1.0	80	89	10.7				70 - 130	30	
o-Xylene	ND	1.0	86	93	7.8				70 - 130	30	
p-Isopropyltoluene	ND	1.0	80	89	10.7				70 - 130	30	
sec-Butylbenzene	ND	1.0	81	91	11.6				70 - 130	30	
Styrene	ND	1.0	87	94	7.7				70 - 130	30	
tert-Butylbenzene	ND	1.0	80	90	11.8				70 - 130	30	
Tetrachloroethene	ND	1.0	75	87	14.8				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	79	87	9.6				70 - 130	30	
Toluene	ND	1.0	80	88	9.5				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	79	89	11.9				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	81	87	7.1				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	98	103	5.0				70 - 130	30	
Trichloroethene	ND	1.0	81	91	11.6				70 - 130	30	
Trichlorofluoromethane	ND	1.0	76	88	14.6				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	81	93	13.8				70 - 130	30	
Vinyl chloride	ND	1.0	80	96	18.2				70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0				70 - 130	30	
% Bromofluorobenzene	98	%	100	100	0.0				70 - 130	30	
% Dibromofluoromethane	101	%	95	96	1.0				70 - 130	30	
% Toluene-d8	98	%	100	99	1.0				70 - 130	30	

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 370140 (mg/L), QC Sample No: BX06081 (BX06081, BX06082, BX06083, BX06086, BX06087, BX06089, BX06090)

TPH by GC (Extractable Products) - Water

Ext. Petroleum H.C.	ND	0.10	60	65	8.0	61			60 - 120	30	
% n-Pentacosane	51	%	58	54	7.1	46			50 - 150	20	m

Comment:

Additional criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%.

QA/QC Batch 370415 (ug/L), QC Sample No: BX06081 (BX06081, BX06084)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	108	103	4.7	93	114	20.3	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	105	106	0.9	92	117	23.9	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	112	101	10.3	100	115	14.0	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	109	93	15.8	94	114	19.2	70 - 130	30	
1,1-Dichloroethane	ND	1.0	109	103	5.7	89	112	22.9	70 - 130	30	
1,1-Dichloroethene	ND	1.0	110	112	1.8	97	123	23.6	70 - 130	30	
1,1-Dichloropropene	ND	1.0	105	109	3.7	88	118	29.1	70 - 130	30	

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,3-Trichlorobenzene	ND	1.0	107	93	14.0	83	114	31.5	70 - 130	30	r
1,2,3-Trichloropropane	ND	1.0	108	98	9.7	96	113	16.3	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	111	101	9.4	89	114	24.6	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	105	108	2.8	89	114	24.6	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	114	102	11.1	98	115	16.0	70 - 130	30	
1,2-Dibromoethane	ND	1.0	108	100	7.7	97	113	15.2	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	105	102	2.9	92	114	21.4	70 - 130	30	
1,2-Dichloroethane	ND	1.0	109	96	12.7	95	114	18.2	70 - 130	30	
1,2-Dichloropropane	ND	1.0	108	100	7.7	93	115	21.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	106	107	0.9	90	115	24.4	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	108	106	1.9	92	116	23.1	70 - 130	30	
1,3-Dichloropropane	ND	1.0	108	99	8.7	96	112	15.4	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	103	100	3.0	89	112	22.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	112	110	1.8	83	107	25.3	70 - 130	30	
2-Chlorotoluene	ND	1.0	106	110	3.7	92	116	23.1	70 - 130	30	
2-Hexanone	ND	5.0	99	83	17.6	91	99	8.4	70 - 130	30	
2-Isopropyltoluene	ND	1.0	101	103	2.0	86	110	24.5	70 - 130	30	
4-Chlorotoluene	ND	1.0	107	109	1.9	90	117	26.1	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	99	77	25.0	90	103	13.5	70 - 130	30	
Acetone	ND	5.0	89	79	11.9	116	130	11.4	70 - 130	30	
Acrylonitrile	ND	5.0	115	89	25.5	103	109	5.7	70 - 130	30	
Benzene	ND	0.70	107	104	2.8	91	118	25.8	70 - 130	30	
Bromobenzene	ND	1.0	105	105	0.0	91	114	22.4	70 - 130	30	
Bromochloromethane	ND	1.0	110	98	11.5	98	114	15.1	70 - 130	30	
Bromodichloromethane	ND	0.50	107	101	5.8	95	115	19.0	70 - 130	30	
Bromoform	ND	1.0	103	91	12.4	91	103	12.4	70 - 130	30	
Bromomethane	ND	1.0	87	85	2.3	29	58	66.7	70 - 130	30	m,r
Carbon Disulfide	ND	1.0	110	109	0.9	93	121	26.2	70 - 130	30	
Carbon tetrachloride	ND	1.0	108	109	0.9	94	118	22.6	70 - 130	30	
Chlorobenzene	ND	1.0	105	105	0.0	92	116	23.1	70 - 130	30	
Chloroethane	ND	1.0	108	105	2.8	95	118	21.6	70 - 130	30	
Chloroform	ND	1.0	107	99	7.8	95	116	19.9	70 - 130	30	
Chloromethane	ND	1.0	100	97	3.0	79	101	24.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	108	102	5.7	95	118	21.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	108	97	10.7	91	112	20.7	70 - 130	30	
Dibromochloromethane	ND	0.50	109	100	8.6	97	113	15.2	70 - 130	30	
Dibromomethane	ND	1.0	110	96	13.6	96	114	17.1	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	129	135	4.5	86	110	24.5	70 - 130	30	l
Ethylbenzene	ND	1.0	106	108	1.9	92	116	23.1	70 - 130	30	
Hexachlorobutadiene	ND	0.40	110	117	6.2	86	116	29.7	70 - 130	30	
Isopropylbenzene	ND	1.0	105	108	2.8	90	117	26.1	70 - 130	30	
m&p-Xylene	ND	1.0	109	109	0.0	92	118	24.8	70 - 130	30	
Methyl ethyl ketone	ND	5.0	111	86	25.4	95	111	15.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	108	87	21.5	85	106	22.0	70 - 130	30	
Methylene chloride	ND	1.0	107	97	9.8	96	113	16.3	70 - 130	30	
Naphthalene	ND	1.0	115	102	12.0	95	126	28.1	70 - 130	30	
n-Butylbenzene	ND	1.0	113	109	3.6	93	119	24.5	70 - 130	30	
n-Propylbenzene	ND	1.0	107	108	0.9	89	116	26.3	70 - 130	30	
o-Xylene	ND	1.0	107	107	0.0	93	115	21.2	70 - 130	30	
p-Isopropyltoluene	ND	1.0	109	107	1.9	90	116	25.2	70 - 130	30	
sec-Butylbenzene	ND	1.0	115	110	4.4	98	124	23.4	70 - 130	30	
Styrene	ND	1.0	110	105	4.7	93	116	22.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	108	108	0.0	93	119	24.5	70 - 130	30	

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Tetrachloroethene	ND	1.0	108	107	0.9	86	120	33.0	70 - 130	30	r
Tetrahydrofuran (THF)	ND	2.5	97	76	24.3	92	100	8.3	70 - 130	30	
Toluene	ND	1.0	106	104	1.9	91	118	25.8	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	110	108	1.8	96	118	20.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	110	95	14.6	92	114	21.4	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	100	90	10.5	76	92	19.0	70 - 130	30	
Trichloroethene	ND	1.0	108	107	0.9	91	119	26.7	70 - 130	30	
Trichlorofluoromethane	ND	1.0	102	105	2.9	85	104	20.1	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	108	109	0.9	78	99	23.7	70 - 130	30	
Vinyl chloride	ND	1.0	107	109	1.9	86	115	28.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	102	98	4.0	101	102	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	103	98	5.0	102	101	1.0	70 - 130	30	
% Dibromofluoromethane	104	%	101	95	6.1	104	100	3.9	70 - 130	30	
% Toluene-d8	99	%	102	103	1.0	102	103	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 370158 (ug/L), QC Sample No: BX06081 (BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06087, BX06088, BX06089, BX06090)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	51	55	7.5	61	69	12.3	30 - 130	20	
Acenaphthene	ND	0.05	70	72	2.8	69	78	12.2	30 - 130	20	
Acenaphthylene	ND	0.04	73	75	2.7	83	94	12.4	30 - 130	20	
Anthracene	ND	0.02	84	84	0.0	91	99	8.4	30 - 130	20	
Benz(a)anthracene	ND	0.02	78	78	0.0	94	102	8.2	30 - 130	20	
Benzo(a)pyrene	ND	0.02	81	81	0.0	84	95	12.3	30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	91	91	0.0	112	123	9.4	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	75	72	4.1	70	82	15.8	30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	88	88	0.0	87	97	10.9	30 - 130	20	
Chrysene	ND	0.02	81	81	0.0	79	87	9.6	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	82	79	3.7	85	101	17.2	30 - 130	20	
Fluoranthene	ND	0.04	87	86	1.2	101	109	7.6	30 - 130	20	
Fluorene	ND	0.05	76	76	0.0	80	89	10.7	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	77	74	4.0	86	101	16.0	30 - 130	20	
Naphthalene	ND	0.05	40	45	11.8	47	55	15.7	30 - 130	20	
Phenanthrene	ND	0.05	77	78	1.3	76	82	7.6	30 - 130	20	
Pyrene	ND	0.02	88	88	0.0	104	111	6.5	30 - 130	20	
% 2-Fluorobiphenyl	49	%	60	65	8.0	59	65	9.7	30 - 130	20	
% Nitrobenzene-d5	42	%	41	45	9.3	52	59	12.6	30 - 130	20	
% Terphenyl-d14	88	%	92	92	0.0	103	110	6.6	30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

QA/QC Data

SDG I.D.: GBX06080

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
January 03, 2017

Wednesday, January 04, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBX06080 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BX06084	$8100CTSIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	2.6	0.05	0.3	0.3	ug/L
BX06084	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1.1	0.01	0.01	0.01	ug/L
BX06084	$8100CTSIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	3.7	0.05	0.3	0.3	ug/L
BX06084	$8100CTSIMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	4.5	0.05	0.3	0.3	ug/L
BX06084	$8100CTSIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	5.0	0.05	0.3	0.3	ug/L
BX06084	$8100CTSIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	4.8	0.05	0.3	0.3	ug/L
BX06084	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	2.8	0.05	0.3	0.3	ug/L
BX06086	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.05	0.01	0.01	0.01	ug/L
BX06087	$8100CTSIMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.51	0.05	0.3	0.3	ug/L
BX06088	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.06	0.01	0.01	0.01	ug/L
BX06088	$8100CTSIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.34	0.05	0.3	0.3	ug/L
BX06088	$8100CTSIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.39	0.05	0.3	0.3	ug/L
BX06088	$8100CTSIMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.40	0.05	0.3	0.3	ug/L
BX06088	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.025	0.004	0.004	0.004	mg/L
BX06088	PB-WM10	Lead (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.037	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:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BX06080-BX06090 ***Sampling Date(s):*** 12/15/2016

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Wednesday, January 04, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

January 04, 2017

SDG I.D.: GBX06080

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 370140 (Samples: BX06081, BX06082, BX06083, BX06086, BX06087, BX06089, BX06090): -----

One or more surrogates is outside of criteria. (% n-Pentacosane)

Instrument:

AU-FID1 12/19/16-1 Jeff Bucko, Chemist 12/19/16

BX06089, BX06090

The initial calibration (ETPHN09I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 12/19/16-1 Jeff Bucko, Chemist 12/19/16

BX06081

The initial calibration (ETPHN23I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID84 12/19/16-1 Jeff Bucko, Chemist 12/19/16

BX06086

The initial calibration (ETPHD06I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AUFID-D1 12/19/16-1 Jeff Bucko, Chemist 12/19/16

BX06082, BX06083

The initial calibration (ETPHN13I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 12/20/16-1 Jeff Bucko, Chemist 12/20/16

BX06087

The initial calibration (ETPHN13I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 370140 (BX06081)

BX06081, BX06082, BX06083, BX06086, BX06087, BX06089, BX06090

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.

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January 04, 2017

SDG I.D.: GBX06080

ETPH Narration

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: % n-Pentacosane(46%)
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 Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ARCOS 12/16/16 10:37 Laura Kinnin, Mike Arsenault, Tina Hall, Chemist 12/16/16

BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06088, BX06089, BX06090

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: CCV 12/16/16 18:50: Lead 112% (90-110)
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 12/20/16 13:20 Mike Arsenault, Chemist 12/20/16

BX06087

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

ARCOS 12/23/16 11:07 Laura Kinnin, Mike Arsenault, Tina Hall, Chemist 12/23/16

BX06082, BX06083

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 370182 (BX06081)

BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06088, BX06089, BX06090

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

Batch 370303 (BX06087)

BX06087

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOASIM Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

January 04, 2017

SDG I.D.: GBX06080

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

BX06081, BX06085, BX06086, BX06087, BX06088 - Poor surrogate recovery was observed for one acid and/or one base surrogate. The other surrogates associated with this sample were within criteria, so no bias is suspected.

Instrument:

CHEM07 12/16/16-1 Damien Drobinski, Chemist 12/16/16

BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06087, BX06088, BX06089, BX06090

Initial Calibration Verification (CHEM07/SIM_1206):
92% of target compounds met criteria.
The following compounds had %RSDs >20%: Indeno(1,2,3-cd)pyrene 22% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/1216_02-SIM_1206):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 370158 (BX06081)

BX06081, BX06082, BX06083, BX06084, BX06085, BX06086, BX06087, BX06088, BX06089, BX06090

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Environmental Laboratories, Inc.
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NY # 11301

RCP Certification Report

January 04, 2017

SDG I.D.: GBX06080

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 370259 (Samples: BX06080): -----

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. (Bromomethane)

QC Batch 370415 (Samples: BX06081, BX06084): -----

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 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. (Bromomethane)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (1,2,3-Trichlorobenzene, Bromomethane, Tetrachloroethene)

Instrument:

CHEM17 12/15/16-2 Michael Hahn, Chemist 12/15/16

BX06080

Initial Calibration Verification (CHEM17/VT-S1214):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.030 (0.05), 2-Hexanone 0.045 (0.1), 4-Methyl-2-pentanone 0.067 (0.1), Acetone 0.025 (0.1), Acrylonitrile 0.037 (0.05), Methyl ethyl ketone 0.036 (0.1), Tetrahydrofuran (THF) 0.025 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/1215S20-VT-S1214):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.245 (0.3), 1,2-Dibromo-3-chloropropane 0.031 (0.05), Acrylonitrile 0.033 (0.05), Bromoform 0.094 (0.1), Tetrahydrofuran (THF) 0.021 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM17 12/16/16-1 Harry Mullin, Chemist 12/16/16

BX06081, BX06084

Initial Calibration Verification (CHEM17/VT-S1214):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.030 (0.05), 2-Hexanone 0.045 (0.1), 4-Methyl-2-pentanone 0.067 (0.1), Acetone 0.025 (0.1), Acrylonitrile 0.037 (0.05), Methyl ethyl ketone 0.036 (0.1), Tetrahydrofuran (THF) 0.025 (0.05)
The following compounds did not meet a minimum response factors: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

January 04, 2017

SDG I.D.: GBX06080

VOA Narration

Continuing Calibration Verification (CHEM17/1216S02-VT-S1214):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.264 (0.3), 1,2-Dibromo-3-chloropropane 0.029 (0.05), Acrylonitrile 0.041 (0.05), Bromoform 0.094 (0.1), Tetrahydrofuran (THF) 0.025 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 370259 (BX05944)

BX06080

All LCS recoveries were within 70 - 130 with the following exceptions: Bromomethane(58%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 370415 (BX06081)

BX06081, BX06084

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Dichlorodifluoromethane(135%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Bromomethane(29%)
All MSD recoveries were within 70 - 130 with the following exceptions: Bromomethane(58%)
All MS/MSD RPDs were less than 30% with the following exceptions: 1,2,3-Trichlorobenzene(31.5%), Bromomethane(66.7%), Tetrachloroethene(33.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 2°C.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

2 coolers

CHAIN-OF-CUSTODY RECORD 36851

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Forme Anocoil	Rockville, CT	20014547.P60	Phoenix

REPORT TO: Kevin van der Veer
INVOICE TO:
P.O. NO.:
Sampler's Signature: [signature] Date: 12/15/16

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	EPH	PAHs	Total RCP 8 Metals	Filtered RCP 8 Metals	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Glass Soil Container ☐ $Na(SO_4)_2$	Other:	Other:	Water VOA Vial, ☐ As is, X HCl	Glass Amber (1000) ml, X As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml X Filtered ☐ 0.45µ X 10µ	Plastic - HNO_3, 250 ml	Plastic - NaOH, 250 ml	Comments
01		1306161215-01	X	12/15/16	1000	X											2						06080
02		-02	MW		1123	X	X	X	X								3	9	9		06081		MS/MSD
03		-03			1130	X	X	X	X	X							1		3				06082
04		-04			1140		X	X	X	X							1		3		06083		no charge
05		-05			1120	X				X								3	2			1	06084
06		-06			1200														3				06085
07		-07			1234		X												3				06086
08		-08			1310		X												3				06087
09		-09			1229														2				06088
10		-10			1324		X		X								1		3				06089
11		-11			1325		X		X								1		3				06090

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	12/15/16	15:20
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res. VC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Thursday, January 26, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BX22306 - BX22310

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

REVIEWED DMS
By pbibeau at 1:03 pm, Jan 26, 2017

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

PHOENIX
Environmental Laboratories, Inc.

Monday, January 23, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BX22306 - BX22310

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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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

REVIEWED DMS
By pbibeau at 1:03 pm, Jan 26, 2017

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

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

January 26, 2017

SDG I.D.: GBX22306

Revision 2: GWP criteria does not apply

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/13/17	9:20
Location Code:	F&O	Received by:	SW	01/13/17	12:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX22306
Phoenix ID: BX22306

Project ID: FORMER ANOCOIL
Client ID: 1358170113-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	01/14/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170113-01

Trip Blank

Phoenix I.D.: BX22306

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	01/14/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	01/14/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	1	01/14/17	MH	70 - 130 %
% Bromofluorobenzene	105		%	1	01/14/17	MH	70 - 130 %
% Dibromofluoromethane	108		%	1	01/14/17	MH	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170113-01

Trip Blank

Phoenix I.D.: BX22306

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	105		%	1	01/14/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 23, 2017
Reviewed and Released by: Ethan Lee, 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

January 23, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/13/17	10:02
Location Code:	F&O	Received by:	SW	01/13/17	12:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX22306
Phoenix ID: BX22307

Project ID: FORMER ANOCOIL
Client ID: 1358170113-02 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semi-Volatile Extraction	Completed				01/13/17	P/D	SW3520C
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.08	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.05	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.06	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Chrysene	0.08	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	01/16/17	DD	SW8270D (SIM)
Fluoranthene	0.21	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	01/16/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
Pyrene	0.24	0.05	ug/L	1	01/16/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	01/16/17	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	01/16/17	DD	30 - 130 %
% Terphenyl-d14	87		%	1	01/16/17	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358170113-02

MW-14

Phoenix I.D.: BX22307

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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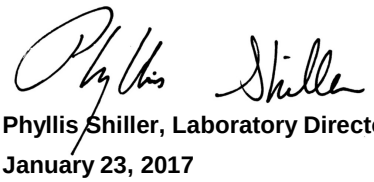


Phyllis Shiller, Laboratory Director
January 23, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/13/17	10:56
Location Code:	F&O	Received by:	SW	01/13/17	12:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX22306
Phoenix ID: BX22308

Project ID: FORMER ANOCOIL
Client ID: 1358170113-03 MW-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	01/18/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	01/18/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	01/18/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	01/18/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	01/18/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170113-03

MW-11

Phoenix I.D.: BX22308

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	01/18/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	01/18/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	01/18/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	01/18/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	01/18/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	01/18/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	01/18/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	01/18/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	01/18/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	01/18/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	01/18/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	01/18/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	01/18/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	01/18/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	01/18/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	01/18/17	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	01/18/17	MH	70 - 130 %
% Dibromofluoromethane	97		%	1	01/18/17	MH	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170113-03

MW-11

Phoenix I.D.: BX22308

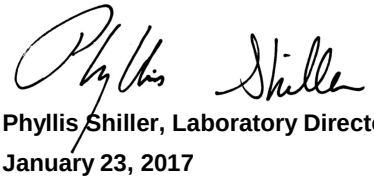
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	102		%	1	01/18/17	MH	70 - 130 %
Client MS/MSD	Completed				01/18/17		

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
January 23, 2017
Reviewed and Released by: Ethan Lee, 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

January 23, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/13/17	11:28
Location Code:	F&O	Received by:	SW	01/13/17	12:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX22306
Phoenix ID: BX22309

Project ID: FORMER ANOCOIL
Client ID: 1358170113-04 MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	01/14/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170113-04 MW-02

Phoenix I.D.: BX22309

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	01/14/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	01/14/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	01/14/17	MH	70 - 130 %
% Bromofluorobenzene	104		%	1	01/14/17	MH	70 - 130 %
% Dibromofluoromethane	105		%	1	01/14/17	MH	70 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358170113-04 MW-02

Phoenix I.D.: BX22309

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	104		%	1	01/14/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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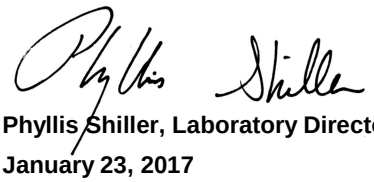

Phyllis Shiller, Laboratory Director
January 23, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

January 23, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		01/13/17	11:38
Location Code:	F&O	Received by:	SW	01/13/17	12:12
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX22306
Phoenix ID: BX22310

Project ID: FORMER ANOCOIL
Client ID: 1358170113-05

MW-02 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	01/14/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	01/14/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	01/14/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170113-05

MW-02 Field Duplicate

Phoenix I.D.: BX22310

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	01/14/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	01/14/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Chloromethane	1.1	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	01/14/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	01/14/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	01/14/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	01/14/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	01/14/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	01/14/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	01/14/17	MH	70 - 130 %
% Bromofluorobenzene	104		%	1	01/14/17	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	01/14/17	MH	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170113-05

MW-02 Field Duplicate

Phoenix I.D.: BX22310

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	106		%	1	01/14/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
January 23, 2017
Reviewed and Released by: Ethan Lee, 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

January 23, 2017

QA/QC Data

SDG I.D.: GBX22306

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 372972 (ug/L), QC Sample No: BX22307 (BX22307)										
Semivolatiles by SIM - Water										
2-Methylnaphthalene	ND	0.05	68	68	0.0				30 - 130	20
Acenaphthene	ND	0.05	80	86	7.2				30 - 130	20
Acenaphthylene	ND	0.04	77	83	7.5				30 - 130	20
Anthracene	ND	0.02	90	94	4.3				30 - 130	20
Benz(a)anthracene	ND	0.02	88	90	2.2				30 - 130	20
Benzo(a)pyrene	ND	0.02	82	84	2.4				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	87	89	2.3				30 - 130	20
Benzo(ghi)perylene	ND	0.02	86	90	4.5				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	86	91	5.6				30 - 130	20
Chrysene	ND	0.02	89	91	2.2				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	86	92	6.7				30 - 130	20
Fluoranthene	ND	0.04	88	92	4.4				30 - 130	20
Fluorene	ND	0.05	84	89	5.8				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	85	90	5.7				30 - 130	20
Naphthalene	ND	0.05	63	65	3.1				30 - 130	20
Phenanthrene	ND	0.05	84	89	5.8				30 - 130	20
Pyrene	ND	0.02	91	94	3.2				30 - 130	20
% 2-Fluorobiphenyl	82	%	73	76	4.0				30 - 130	20
% Nitrobenzene-d5	79	%	58	62	6.7				30 - 130	20
% Terphenyl-d14	94	%	89	88	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 373685 (ug/L), QC Sample No: BX22308 (BX22308)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	111	108	2.7	111	114	2.7	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	109	107	1.9	114	116	1.7	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	111	107	3.7	107	108	0.9	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	108	103	4.7	104	107	2.8	70 - 130	30
1,1-Dichloroethane	ND	1.0	108	106	1.9	111	114	2.7	70 - 130	30
1,1-Dichloroethene	ND	1.0	114	109	4.5	113	115	1.8	70 - 130	30
1,1-Dichloropropene	ND	1.0	110	108	1.8	110	113	2.7	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	120	110	8.7	100	109	8.6	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	103	102	1.0	100	100	0.0	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	119	112	6.1	106	111	4.6	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	107	108	0.9	104	106	1.9	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	121	114	6.0	111	111	0.0	70 - 130	30
1,2-Dibromoethane	ND	1.0	114	108	5.4	110	112	1.8	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	111	109	1.8	106	109	2.8	70 - 130	30
1,2-Dichloroethane	ND	1.0	106	102	3.8	108	110	1.8	70 - 130	30
1,2-Dichloropropane	ND	1.0	107	103	3.8	105	108	2.8	70 - 130	30

QA/QC Data

SDG I.D.: GBX22306

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,3,5-Trimethylbenzene	ND	1.0	109	110	0.9	106	108	1.9	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	109	109	0.0	104	109	4.7	70 - 130	30
1,3-Dichloropropane	ND	1.0	110	105	4.7	106	109	2.8	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	108	109	0.9	104	107	2.8	70 - 130	30
2,2-Dichloropropane	ND	1.0	121	116	4.2	116	117	0.9	70 - 130	30
2-Chlorotoluene	ND	1.0	110	111	0.9	107	110	2.8	70 - 130	30
2-Hexanone	ND	5.0	97	93	4.2	89	95	6.5	70 - 130	30
2-Isopropyltoluene	ND	1.0	101	103	2.0	96	100	4.1	70 - 130	30
4-Chlorotoluene	ND	1.0	108	109	0.9	104	107	2.8	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	100	93	7.3	97	98	1.0	70 - 130	30
Acetone	ND	5.0	91	88	3.4	112	112	0.0	70 - 130	30
Acrylonitrile	ND	5.0	97	91	6.4	97	99	2.0	70 - 130	30
Benzene	ND	0.70	109	106	2.8	105	110	4.7	70 - 130	30
Bromobenzene	ND	1.0	108	105	2.8	104	108	3.8	70 - 130	30
Bromochloromethane	ND	1.0	109	106	2.8	109	111	1.8	70 - 130	30
Bromodichloromethane	ND	0.50	106	103	2.9	106	108	1.9	70 - 130	30
Bromoform	ND	1.0	115	109	5.4	111	115	3.5	70 - 130	30
Bromomethane	ND	1.0	108	108	0.0	100	113	12.2	70 - 130	30
Carbon Disulfide	ND	1.0	102	97	5.0	100	102	2.0	70 - 130	30
Carbon tetrachloride	ND	1.0	114	111	2.7	118	120	1.7	70 - 130	30
Chlorobenzene	ND	1.0	108	106	1.9	104	107	2.8	70 - 130	30
Chloroethane	ND	1.0	107	103	3.8	104	109	4.7	70 - 130	30
Chloroform	ND	1.0	107	104	2.8	110	113	2.7	70 - 130	30
Chloromethane	ND	1.0	99	99	0.0	98	104	5.9	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	106	107	0.9	109	113	3.6	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	110	105	4.7	106	108	1.9	70 - 130	30
Dibromochloromethane	ND	0.50	116	113	2.6	114	119	4.3	70 - 130	30
Dibromomethane	ND	1.0	109	103	5.7	105	111	5.6	70 - 130	30
Dichlorodifluoromethane	ND	1.0	101	98	3.0	101	101	0.0	70 - 130	30
Ethylbenzene	ND	1.0	110	111	0.9	109	111	1.8	70 - 130	30
Hexachlorobutadiene	ND	0.40	128	121	5.6	102	109	6.6	70 - 130	30
Isopropylbenzene	ND	1.0	110	111	0.9	109	110	0.9	70 - 130	30
m&p-Xylene	ND	1.0	109	108	0.9	106	110	3.7	70 - 130	30
Methyl ethyl ketone	ND	5.0	97	103	6.0	108	110	1.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	92	86	6.7	92	94	2.2	70 - 130	30
Methylene chloride	ND	1.0	106	98	7.8	99	104	4.9	70 - 130	30
Naphthalene	ND	1.0	117	108	8.0	97	108	10.7	70 - 130	30
n-Butylbenzene	ND	1.0	114	116	1.7	106	109	2.8	70 - 130	30
n-Propylbenzene	ND	1.0	109	111	1.8	106	108	1.9	70 - 130	30
o-Xylene	ND	1.0	111	110	0.9	106	111	4.6	70 - 130	30
p-Isopropyltoluene	ND	1.0	111	113	1.8	105	109	3.7	70 - 130	30
sec-Butylbenzene	ND	1.0	117	119	1.7	112	115	2.6	70 - 130	30
Styrene	ND	1.0	110	108	1.8	105	109	3.7	70 - 130	30
tert-Butylbenzene	ND	1.0	112	113	0.9	107	110	2.8	70 - 130	30
Tetrachloroethene	ND	1.0	111	111	0.0	111	114	2.7	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	107	97	9.8	102	99	3.0	70 - 130	30
Toluene	ND	1.0	106	105	0.9	104	108	3.8	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	111	106	4.6	111	113	1.8	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	110	106	3.7	106	111	4.6	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	109	107	1.9	99	104	4.9	70 - 130	30
Trichloroethene	ND	1.0	111	107	3.7	110	112	1.8	70 - 130	30
Trichlorofluoromethane	ND	1.0	124	119	4.1	128	126	1.6	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	104	2.8	107	104	2.8	70 - 130	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Vinyl chloride	ND	1.0	121	117	3.4	110	122	10.3	70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	100	100	0.0	100	100	0.0	70 - 130	30
% Bromofluorobenzene	96	%	100	98	2.0	100	100	0.0	70 - 130	30
% Dibromofluoromethane	90	%	98	97	1.0	102	100	2.0	70 - 130	30
% Toluene-d8	102	%	100	99	1.0	98	99	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 373144 (ug/L), QC Sample No: BX22566 (BX22306, BX22309, BX22310)

Volatiles - Water

1,1,1,2-Tetrachloroethane	ND	1.0	109	110	0.9				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	116	115	0.9				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	98	103	5.0				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	94	97	3.1				70 - 130	30
1,1-Dichloroethane	ND	1.0	107	106	0.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	105	104	1.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	106	106	0.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	115	115	0.0				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	106	107	0.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	109	108	0.9				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	99	99	0.0				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	117	114	2.6				70 - 130	30
1,2-Dibromoethane	ND	1.0	103	105	1.9				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	98	100	2.0				70 - 130	30
1,2-Dichloroethane	ND	1.0	113	113	0.0				70 - 130	30
1,2-Dichloropropane	ND	1.0	94	97	3.1				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	103	101	2.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	98	97	1.0				70 - 130	30
1,3-Dichloropropane	ND	1.0	102	103	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	97	97	0.0				70 - 130	30
2,2-Dichloropropane	ND	1.0	128	125	2.4				70 - 130	30
2-Chlorotoluene	ND	1.0	101	100	1.0				70 - 130	30
2-Hexanone	ND	5.0	93	100	7.3				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	100	1.0				70 - 130	30
4-Chlorotoluene	ND	1.0	95	95	0.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	97	102	5.0				70 - 130	30
Acetone	ND	5.0	90	91	1.1				70 - 130	30
Acrylonitrile	ND	5.0	88	98	10.8				70 - 130	30
Benzene	ND	0.70	97	98	1.0				70 - 130	30
Bromobenzene	ND	1.0	96	97	1.0				70 - 130	30
Bromochloromethane	ND	1.0	95	99	4.1				70 - 130	30
Bromodichloromethane	ND	0.50	109	107	1.9				70 - 130	30
Bromoform	ND	1.0	107	111	3.7				70 - 130	30
Bromomethane	ND	1.0	93	105	12.1				70 - 130	30
Carbon Disulfide	ND	1.0	106	104	1.9				70 - 130	30
Carbon tetrachloride	ND	1.0	124	120	3.3				70 - 130	30
Chlorobenzene	ND	1.0	98	99	1.0				70 - 130	30
Chloroethane	ND	1.0	109	110	0.9				70 - 130	30
Chloroform	ND	1.0	108	106	1.9				70 - 130	30
Chloromethane	ND	1.0	103	101	2.0				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	98	94	4.2				70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	99	102	3.0				70 - 130	30
Dibromochloromethane	ND	0.50	114	114	0.0				70 - 130	30

QA/QC Data

SDG I.D.: GBX22306

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Dibromomethane	ND	1.0	99	102	3.0				70 - 130	30
Dichlorodifluoromethane	ND	1.0	117	115	1.7				70 - 130	30
Ethylbenzene	ND	1.0	103	103	0.0				70 - 130	30
Hexachlorobutadiene	ND	0.40	108	107	0.9				70 - 130	30
Isopropylbenzene	ND	1.0	100	100	0.0				70 - 130	30
m&p-Xylene	ND	1.0	101	101	0.0				70 - 130	30
Methyl ethyl ketone	ND	5.0	96	108	11.8				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	101	104	2.9				70 - 130	30
Methylene chloride	ND	1.0	98	94	4.2				70 - 130	30
Naphthalene	ND	1.0	110	114	3.6				70 - 130	30
n-Butylbenzene	ND	1.0	105	103	1.9				70 - 130	30
n-Propylbenzene	ND	1.0	99	98	1.0				70 - 130	30
o-Xylene	ND	1.0	99	99	0.0				70 - 130	30
p-Isopropyltoluene	ND	1.0	102	100	2.0				70 - 130	30
sec-Butylbenzene	ND	1.0	108	106	1.9				70 - 130	30
Styrene	ND	1.0	97	97	0.0				70 - 130	30
tert-Butylbenzene	ND	1.0	104	103	1.0				70 - 130	30
Tetrachloroethene	ND	1.0	101	103	2.0				70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	93	106	13.1				70 - 130	30
Toluene	ND	1.0	96	96	0.0				70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	104	101	2.9				70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	104	107	2.8				70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	102	106	3.8				70 - 130	30
Trichloroethene	ND	1.0	103	102	1.0				70 - 130	30
Trichlorofluoromethane	ND	1.0	114	113	0.9				70 - 130	30
Trichlorotrifluoroethane	ND	1.0	99	96	3.1				70 - 130	30
Vinyl chloride	ND	1.0	106	107	0.9				70 - 130	30
% 1,2-dichlorobenzene-d4	107	%	107	106	0.9				70 - 130	30
% Bromofluorobenzene	103	%	108	107	0.9				70 - 130	30
% Dibromofluoromethane	100	%	105	102	2.9				70 - 130	30
% Toluene-d8	105	%	103	103	0.0				70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

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
January 23, 2017

Thursday, January 26, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBX22306 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BX22306-BX22310 ***Sampling Date(s):*** 1/13/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?**	☑ Yes ☐ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Thursday, January 26, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

January 26, 2017

SDG I.D.: GBX22306

SDG Comments

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM07 01/16/17-1 Damien Drobinski, Chemist 01/16/17

BX22307

Initial Calibration Verification (CHEM07/SIM_0106):
90% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0116_02-SIM_0106):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 372972 (BX22307)

BX22307

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM02 01/13/17-3 Michael Hahn, Chemist 01/13/17

BX22306, BX22309, BX22310

Initial Calibration Verification (CHEM02/VT-P0106):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 32% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.029 (0.05), 2-Hexanone 0.055 (0.1), 4-Methyl-2-pentanone 0.077 (0.1), Acetone 0.034 (0.1), Acrylonitrile 0.037 (0.05), Methyl ethyl ketone 0.045 (0.1), Tetrahydrofuran (THF) 0.029 (0.05)
The following compounds did not meet a minimum response factors: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

January 26, 2017

SDG I.D.: GBX22306

VOA Narration

Continuing Calibration Verification (CHEM02/0113P49-VT-P0106):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: Trichlorofluoromethane 34%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.279 (0.3), 1,2-Dibromo-3-chloropropane 0.036 (0.05), Acrylonitrile 0.042 (0.05), Tetrahydrofuran (THF) 0.034 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM02 01/18/17-1 Michael Hahn, Chemist 01/18/17

BX22308

Initial Calibration Verification (CHEM02/VT-P0118):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 24% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.025 (0.05), 2-Hexanone 0.047 (0.1), 4-Methyl-2-pentanone 0.061 (0.1), Acetone 0.023 (0.1), Acrylonitrile 0.028 (0.05), Bromoform 0.087 (0.1), Methyl ethyl ketone 0.031 (0.1), Tetrahydrofuran (THF) 0.022 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0118P12-VT-P0118):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.231 (0.3), 1,2-Dibromo-3-chloropropane 0.028 (0.05), Acrylonitrile 0.029 (0.05), Bromoform 0.096 (0.1), Tetrahydrofuran (THF) 0.022 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 373144 (BX22566)

BX22306, BX22309, BX22310

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 373685 (BX22308)

BX22308

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

January 26, 2017

SDG I.D.: GBX22306

VOA Narration

Temperature Narration

The samples in this delivery group were received at 1°C.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

1° w/c + sp

CHAIN-OF-CUSTODY RECORD 36857

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME: Former Anocal
PROJECT LOCATION: Rockville, CT
PROJECT NUMBER: 20014454.P100
LABORATORY: Phoenix

REPORT TO: Kevin Vandeveer, P.E.
INVOICE TO: ↓
P.O. No.:
Sampler's Signature: Date: 01-13-17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	PAHs	VOCs	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ☐ $Na(SO_4)_2$ ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000 ml) ☒ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					135870113-01	X	01-13-17	0920		X	22306					2						
02					-02	MW		1002	X		22307						2					
03					-03			1056		X	22308					9						MS/MSD
04					-04			1128		X	22309					3						[redacted]
05					-05	↓	↓	1138		X	22310					3						no charge

Transfer Number	Relinquished By	Accepted By	Date	Time
1		Paradise	1/13/17	1212
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☐ RCP Deliverables ☐ MCP CAM Cert.
Res VC, SWPC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Tuesday, April 11, 2017

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL VERNON
Sample ID#s: BX97083 - BX97090

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED DMS
By pbibeau at 10:49 am, Apr 11, 2017

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Telephone (860) 645-1102 Fax (860) 645-0823

PHOENIX
Environmental Laboratories, Inc.

Friday, April 07, 2017

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL VERNON
Sample ID#s: BX97083 - BX97090

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

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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
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NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

REVIEWED **DMS**
By pbibeau at 10:49 am, Apr 11, 2017

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	10:00
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97083

Project ID: ANOCOIL VERNON
Client ID: 1306170331-01

Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170331-01

Trip Blank

Phoenix I.D.: BX97083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	04/03/17	MH	70 - 130 %

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-01

Trip Blank

Phoenix I.D.: BX97083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	04/03/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	11:50
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97084

Project ID: ANOCOIL VERNON
Client ID: 1306170331-02 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.126	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				03/31/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/R/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/03/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/03/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	61		%	1	04/03/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-02

MW-14

Phoenix I.D.: BX97084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170331-02

MW-14

Phoenix I.D.: BX97084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	04/03/17	MH	70 - 130 %
% Toluene-d8	101		%	1	04/03/17	MH	70 - 130 %
Client MS/MSD	Completed				04/04/17		

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	ND	0.06	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	53		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	74		%	1	04/04/17	DD	30 - 130 %

Project ID: ANOCOIL VERNON
Client ID: 1306170331-02

MW-14

Phoenix I.D.: BX97084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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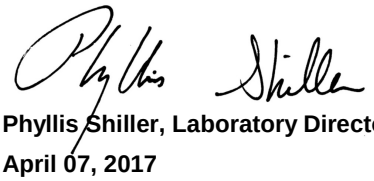

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	11:35
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97085

Project ID: ANOCOIL VERNON
Client ID: 1306170331-03 MW-05

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	13.8	0.010	mg/L	1	04/01/17	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/01/17	LK	SW6010C/E200.7
Chromium	0.002	0.001	mg/L	1	04/01/17	LK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	04/03/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/04/17	P/D	SW3520C
Total Metals Digestion	Completed				03/31/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	71		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.06	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluoranthene	0.10	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-03

MW-05

Phoenix I.D.: BX97085

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/05/17	DD	SW8270D (SIM)
Phenanthrene	0.09	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Pyrene	0.08	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	55		%	1	04/05/17	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/05/17	DD	30 - 130 %
% Terphenyl-d14	80		%	1	04/05/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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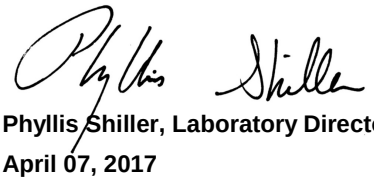

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	12:20
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97086

Project ID: ANOCOIL VERNON
Client ID: 1306170331-04 MW-12

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	1.31	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	0.005	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.07	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.07	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.07	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	0.07	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	0.12	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-04

MW-12

Phoenix I.D.: BX97086

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	0.12	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	54		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	53		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	75		%	1	04/04/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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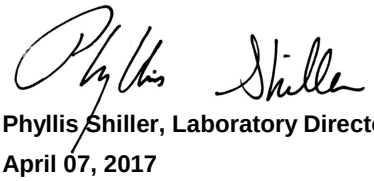

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	12:40
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97087

Project ID: ANOCOIL VERNON
Client ID: 1306170331-05

MW-12 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	1.36	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	< 0.001	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.071	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.07	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	0.11	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-05

MW-12 Field Duplicate

Phoenix I.D.: BX97087

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	0.11	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	83		%	1	04/04/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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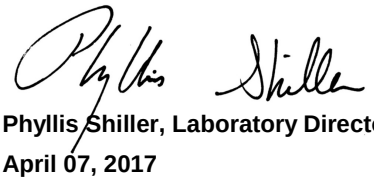

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	13:10
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97088

Project ID: ANOCOIL VERNON
Client ID: 1306170331-06 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.160	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	0.001	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.078	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-06

MW-08

Phoenix I.D.: BX97088

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	81		%	1	04/04/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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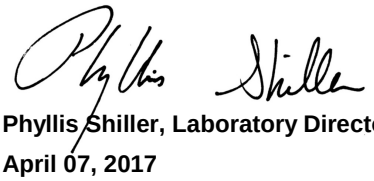

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	14:10
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97089

Project ID: ANOCOIL VERNON
Client ID: 1306170331-07 MW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.083	0.010	mg/L	1	04/01/17	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/01/17	LK	SW6010C/E200.7
Chromium	< 0.001	0.001	mg/L	1	04/01/17	LK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	04/01/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				03/31/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	76		%	1	04/04/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170331-07 MW-01

Phoenix I.D.: BX97089

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170331-07

MW-01

Phoenix I.D.: BX97089

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	04/03/17	MH	70 - 130 %
% Toluene-d8	100		%	1	04/03/17	MH	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	55		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	52		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	81		%	1	04/04/17	DD	30 - 130 %

Project ID: ANOCOIL VERNON
Client ID: 1306170331-07

MW-01

Phoenix I.D.: BX97089

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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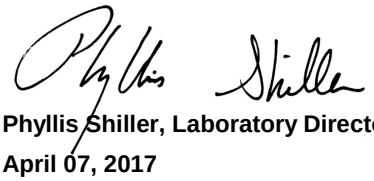

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 07, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:	MM	03/31/17	14:00
Location Code:	F&O	Received by:	B	03/31/17	15:47
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	201454.P60				

Laboratory Data

SDG ID: GBX97083
Phoenix ID: BX97090

Project ID: ANOCOIL VERNON
Client ID: 1306170331-08 MW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum	0.666	0.010	mg/L	1	04/01/17	LK	SW6010C/E200.7
Arsenic	< 0.004	0.004	mg/L	1	04/01/17	LK	SW6010C/E200.7
Chromium	0.003	0.001	mg/L	1	04/01/17	LK	SW6010C/E200.7
Lead	< 0.002	0.002	mg/L	1	04/01/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				03/31/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	72		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluoranthene	0.06	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)

Ver 1

Project ID: ANOCOIL VERNON
Client ID: 1306170331-08

MW-04

Phoenix I.D.: BX97090

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/04/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
Pyrene	0.10	0.05	ug/L	1	04/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	04/04/17	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/04/17	DD	30 - 130 %
% Terphenyl-d14	80		%	1	04/04/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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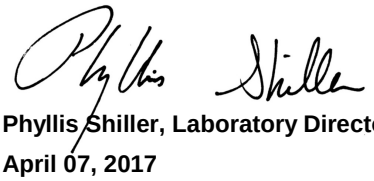

Phyllis Shiller, Laboratory Director
April 07, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 07, 2017

QA/QC Data

SDG I.D.: GBX97083

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 381177 (mg/L), QC Sample No: BX96903 (BX97085, BX97089, BX97090)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	2.61	2.54	2.70	98.5			NC			75 - 125	20	
Arsenic	BRL	0.004	0.006	0.001	NC	99.7			104			75 - 125	20	
Chromium	BRL	0.001	0.037	0.036	2.70	101			99.7			75 - 125	20	
Lead	BRL	0.002	0.003	0.002	NC	100			96.1			75 - 125	20	
QA/QC Batch 381308 (mg/L), QC Sample No: BX97084 (BX97084, BX97086, BX97087, BX97088)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.126	0.178	34.2	100			99.2			75 - 125	20	r
Arsenic	BRL	0.004	0.004	<0.004	NC	97.2			100			75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	98.1			96.2			75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	97.0			94.4			75 - 125	20	

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

April 07, 2017

QA/QC Data

SDG I.D.: GBX97083

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 381192 (mg/L), QC Sample No: BX97084 (BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum H.C.	ND	0.10	61	55	10.3	54	63	15.4	60 - 120	30
% n-Pentacosane	68	%	72	67	7.2	65	65	0.0	50 - 150	20
Comment:										
Additional criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%.										
QA/QC Batch 381381 (ug/L), QC Sample No: BX97084 (BX97083, BX97084, BX97089)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	109	103	5.7	114	110	3.6	70 - 130	30
1,1,1-Trichloroethane	ND	1.0	109	100	8.6	118	112	5.2	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	116	107	8.1	114	111	2.7	70 - 130	30
1,1,2-Trichloroethane	ND	1.0	110	102	7.5	111	107	3.7	70 - 130	30
1,1-Dichloroethane	ND	1.0	107	100	6.8	115	109	5.4	70 - 130	30
1,1-Dichloroethene	ND	1.0	108	99	8.7	114	109	4.5	70 - 130	30
1,1-Dichloropropene	ND	1.0	109	100	8.6	115	110	4.4	70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	121	114	6.0	107	123	13.9	70 - 130	30
1,2,3-Trichloropropane	ND	1.0	110	102	7.5	111	107	3.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	114	107	6.3	108	113	4.5	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	102	95	7.1	103	99	4.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	129	123	4.8	113	122	7.7	70 - 130	30
1,2-Dibromoethane	ND	1.0	111	104	6.5	112	108	3.6	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	107	101	5.8	108	105	2.8	70 - 130	30
1,2-Dichloroethane	ND	1.0	109	101	7.6	114	108	5.4	70 - 130	30
1,2-Dichloropropane	ND	1.0	107	99	7.8	111	107	3.7	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	102	96	6.1	104	100	3.9	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	106	99	6.8	106	104	1.9	70 - 130	30
1,3-Dichloropropane	ND	1.0	108	101	6.7	109	107	1.9	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	104	98	5.9	105	103	1.9	70 - 130	30
2,2-Dichloropropane	ND	1.0	116	108	7.1	111	106	4.6	70 - 130	30
2-Chlorotoluene	ND	1.0	104	97	7.0	106	103	2.9	70 - 130	30
2-Hexanone	ND	5.0	91	85	6.8	94	96	2.1	70 - 130	30
2-Isopropyltoluene	ND	1.0	105	99	5.9	107	104	2.8	70 - 130	30
4-Chlorotoluene	ND	1.0	105	97	7.9	106	102	3.8	70 - 130	30
4-Methyl-2-pentanone	ND	5.0	96	89	7.6	101	99	2.0	70 - 130	30
Acetone	ND	5.0	88	84	4.7	100	97	3.0	70 - 130	30
Acrylonitrile	ND	5.0	107	97	9.8	108	102	5.7	70 - 130	30
Benzene	ND	0.70	105	98	6.9	110	105	4.7	70 - 130	30
Bromobenzene	ND	1.0	107	100	6.8	107	104	2.8	70 - 130	30
Bromochloromethane	ND	1.0	112	104	7.4	112	110	1.8	70 - 130	30
Bromodichloromethane	ND	0.50	112	105	6.5	116	112	3.5	70 - 130	30
Bromoform	ND	1.0	121	114	6.0	123	121	1.6	70 - 130	30
Bromomethane	ND	1.0	109	105	3.7	95	112	16.4	70 - 130	30

QA/QC Data

SDG I.D.: GBX97083

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	1.0	104	97	7.0	109	105	3.7	70 - 130	30
Carbon tetrachloride	ND	1.0	114	100	13.1	123	113	8.5	70 - 130	30
Chlorobenzene	ND	1.0	104	99	4.9	107	104	2.8	70 - 130	30
Chloroethane	ND	1.0	105	98	6.9	112	105	6.5	70 - 130	30
Chloroform	ND	1.0	107	97	9.8	115	109	5.4	70 - 130	30
Chloromethane	ND	1.0	99	92	7.3	101	100	1.0	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	104	98	5.9	109	107	1.9	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	110	105	4.7	112	109	2.7	70 - 130	30
Dibromochloromethane	ND	0.50	119	112	6.1	121	119	1.7	70 - 130	30
Dibromomethane	ND	1.0	109	101	7.6	111	106	4.6	70 - 130	30
Dichlorodifluoromethane	ND	1.0	113	97	15.2	111	104	6.5	70 - 130	30
Ethylbenzene	ND	1.0	104	98	5.9	108	105	2.8	70 - 130	30
Hexachlorobutadiene	ND	0.40	103	98	5.0	101	101	0.0	70 - 130	30
Isopropylbenzene	ND	1.0	104	98	5.9	107	103	3.8	70 - 130	30
m&p-Xylene	ND	1.0	104	99	4.9	108	103	4.7	70 - 130	30
Methyl ethyl ketone	ND	5.0	100	93	7.3	100	101	1.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	115	108	6.3	120	116	3.4	70 - 130	30
Methylene chloride	ND	1.0	104	98	5.9	108	105	2.8	70 - 130	30
Naphthalene	ND	1.0	122	114	6.8	110	121	9.5	70 - 130	30
n-Butylbenzene	ND	1.0	106	99	6.8	107	104	2.8	70 - 130	30
n-Propylbenzene	ND	1.0	104	98	5.9	106	101	4.8	70 - 130	30
o-Xylene	ND	1.0	105	99	5.9	109	105	3.7	70 - 130	30
p-Isopropyltoluene	ND	1.0	104	97	7.0	105	103	1.9	70 - 130	30
sec-Butylbenzene	ND	1.0	108	102	5.7	110	109	0.9	70 - 130	30
Styrene	ND	1.0	106	100	5.8	107	103	3.8	70 - 130	30
tert-Butylbenzene	ND	1.0	104	97	7.0	106	102	3.8	70 - 130	30
Tetrachloroethene	ND	1.0	108	99	8.7	114	111	2.7	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	109	102	6.6	109	112	2.7	70 - 130	30
Toluene	ND	1.0	106	98	7.8	110	105	4.7	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	105	99	5.9	112	106	5.5	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	110	104	5.6	112	106	5.5	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	131	121	7.9	123	120	2.5	70 - 130	30
Trichloroethene	ND	1.0	106	99	6.8	111	108	2.7	70 - 130	30
Trichlorofluoromethane	ND	1.0	109	97	11.7	114	107	6.3	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	107	94	12.9	106	102	3.8	70 - 130	30
Vinyl chloride	ND	1.0	110	101	8.5	112	114	1.8	70 - 130	30
% 1,2-dichlorobenzene-d4	103	%	103	102	1.0	103	103	0.0	70 - 130	30
% Bromofluorobenzene	98	%	100	100	0.0	101	101	0.0	70 - 130	30
% Dibromofluoromethane	101	%	101	103	2.0	102	101	1.0	70 - 130	30
% Toluene-d8	100	%	100	101	1.0	101	100	1.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 381295 (ug/L), QC Sample No: BX97084 (BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	47	52	10.1	35	35	0.0	30 - 130	20
Acenaphthene	ND	0.05	59	66	11.2	46	43	6.7	30 - 130	20
Acenaphthylene	ND	0.04	55	61	10.3	42	40	4.9	30 - 130	20
Anthracene	ND	0.02	67	75	11.3	61	57	6.8	30 - 130	20
Benz(a)anthracene	ND	0.02	63	71	11.9	71	67	5.8	30 - 130	20
Benzo(a)pyrene	ND	0.02	60	67	11.0	66	60	9.5	30 - 130	20
Benzo(b)fluoranthene	ND	0.02	68	75	9.8	80	74	7.8	30 - 130	20
Benzo(ghi)perylene	ND	0.02	51	57	11.1	53	48	9.9	30 - 130	20

QA/QC Data

SDG I.D.: GBX97083

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	0.02	68	76	11.1	83	75	10.1	30 - 130	20
Chrysene	ND	0.02	66	74	11.4	73	69	5.6	30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	55	61	10.3	57	51	11.1	30 - 130	20
Fluoranthene	ND	0.04	67	74	9.9	73	70	4.2	30 - 130	20
Fluorene	ND	0.05	60	65	8.0	49	45	8.5	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	54	59	8.8	44	50	12.8	30 - 130	20
Naphthalene	ND	0.05	49	55	11.5	33	35	5.9	30 - 130	20
Phenanthrene	ND	0.05	62	69	10.7	57	53	7.3	30 - 130	20
Pyrene	ND	0.02	69	75	8.3	76	73	4.0	30 - 130	20
% 2-Fluorobiphenyl	55	%	49	54	9.7	38	36	5.4	30 - 130	20
% Nitrobenzene-d5	70	%	50	56	11.3	38	39	2.6	30 - 130	20
% Terphenyl-d14	66	%	64	71	10.4	77	70	9.5	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%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
April 07, 2017

Tuesday, April 11, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBX97083 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BX97086	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.005	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:*** Fuss & O'Neill, Inc.

Project Location: ANOCOIL VERNON ***Project Number:***

Laboratory Sample ID(s): BX97083-BX97090 ***Sampling Date(s):*** 3/31/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, ICP Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Tuesday, April 11, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

April 11, 2017

SDG I.D.: GBX97083

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 381192 (Samples: BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090): -----

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 H.C.)

Instrument:

AU-XL1 04/04/17-1 Jeff Bucko, Chemist 04/04/17

BX97085, BX97086, BX97087, BX97088, BX97089, BX97090

The initial calibration (ETPH327I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 04/03/17-1 Jeff Bucko, Chemist 04/03/17

BX97084

The initial calibration (ETPH321I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 381192 (BX97084)

BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C.(55%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

ICP Metals Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Certification Report

April 11, 2017

SDG I.D.: GBX97083

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 381308 (Samples: BX97084, BX97086, BX97087, BX97088): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aluminum)

Instrument:

BLUE 04/01/17 01:43 Laura Kinnin, Chemist 04/01/17

BX97085, BX97089, BX97090

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 04/03/17 05:56 Laura Kinnin, Chemist 04/03/17

BX97085

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 04/04/17 11:10 Laura Kinnin, Chemist 04/04/17

BX97084, BX97086, BX97087, BX97088

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 381177 (BX96903)

BX97085, BX97089, BX97090

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Certification Report

April 11, 2017

SDG I.D.: GBX97083

ICP Metals Narration

All LCS recoveries were within 75 - 125 with the following exceptions: None.

QC (Site Specific):

Batch 381308 (BX97084)

BX97084, BX97086, BX97087, BX97088

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

PAHSIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM07 04/04/17-1 Damien Drobinski, Chemist 04/04/17

BX97086, BX97087, BX97088, BX97089, BX97090

Initial Calibration Verification (CHEM07/BNSIM_0329):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0404_02-BNSIM_0329):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 381295 (BX97084)

BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

Environmental Laboratories, Inc.
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RCP Certification Report

April 11, 2017

SDG I.D.: GBX97083

SVOASIM Narration

CHEM04 04/04/17-1 Damien Drobinski, Chemist 04/04/17

BX97084

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 Verification (CHEM04/SIM_0317):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0404_02-SIM_0317):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM04 04/05/17-1 Damien Drobinski, Chemist 04/05/17

BX97085

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_0317):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0405_02-SIM_0317):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
98% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Environmental Laboratories, Inc.
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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 11, 2017

SDG I.D.: GBX97083

SVOASIM Narration

Batch 381295 (BX97084)

BX97084, BX97085, BX97086, BX97087, BX97088, BX97089, BX97090

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 381381 (Samples: BX97083, BX97084, BX97089): -----

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. (trans-1,4-dichloro-2-butene)

Instrument:

CHEM02 04/03/17-1 Michael Hahn, Chemist 04/03/17

BX97083, BX97084, BX97089

Initial Calibration Verification (CHEM02/VT-P0329):
95% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 26% (20%), Bromoform 30% (20%), Bromomethane 29% (20%), Dibromochloromethane 21% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.026 (0.05), 2-Hexanone 0.077 (0.1), 4-Methyl-2-pentanone 0.088 (0.1), Acetone 0.036 (0.1), Bromoform 0.088 (0.1), Methyl ethyl ketone 0.059 (0.1), Tetrahydrofuran (THF) 0.034 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM02/0403P02-VT-P0329):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.030 (0.05), Tetrahydrofuran (THF) 0.039 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 381381 (BX97084)

BX97083, BX97084, BX97089

All LCS recoveries were within 70 - 130 with the following exceptions: trans-1,4-dichloro-2-butene(131%)
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 11, 2017

SDG I.D.: GBX97083

VOA Narration

All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 6.2C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☒ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

6-2WOIP

CHAIN-OF-CUSTODY RECORD 37024

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☒ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil - Vernon	Vernon, CT	20014154.P60	Phoenix

REPORT TO: Kevin van der Veer, FIO
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: Mike Murphy Date: 3/3/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	EPH	PAHs	Al, As, Cr, Pb (Total)	Fe, As, Cr, Pb (Filtered)	Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000) ml ☒ As is ☐ H_2SO_4	Plastic - As is; ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☒ Filtered ☐ 0.45µ ☒ 10x	Plastic - 250 ml HNO_3 - unfiltered	Comments
01		1306170331-01	X	3/3/17	1000	X					9708	3				2						TB
02		-02	MW		1150	X	X	X		X	9708	4				9	9			3		MS/MSD
03		-03			1135				X		9708	5					3				1	
04		-04			1220					X	9708	6					3			1		
05		-05			1240					X	9708	7					3			1		No Charge
06		-06			1310					X	9708	8					3			1		
07		-07			1410	X			X		9708	9				3	3				1	
08		-08	↓	↓	1400		↓	↓	X		9709	0					3				1	

Transfer Number	Relinquished By	Accepted By	Date	Time
1	Mike Murphy	TFD UPS	3/3/17	15:47
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Tuesday, April 11, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL VERNON
Sample ID#s: BX97620 - BX97625

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

REVIEWED **DMS**
By pbibeau at 7:55 am, Apr 12, 2017

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

PHOENIX
Environmental Laboratories, Inc.

Monday, April 10, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL VERNON
Sample ID#s: BX97620 - BX97625

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

REVIEWED DMS
By pbibeau at 7:55 am, Apr 12, 2017

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

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	9:00
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97620

Project ID: ANOCOIL VERNON Trip Blank
Client ID: 1306170403-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170403-01

Trip Blank

Phoenix I.D.: BX97620

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	101		%	1	04/03/17	MH	70 - 130 %

Project ID: ANOCOIL VERNON
Client ID: 1306170403-01

Trip Blank

Phoenix I.D.: BX97620

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	04/03/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	11:45
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97621

Project ID: ANOCOIL VERNON
Client ID: 1306170403-02 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	< 0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	0.004	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/05/17	P/Q/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	0.69	0.072	mg/L	1	04/06/17	JRB	CTETPH 8015D
Identification	**		mg/L	1	04/06/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	04/06/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	0.31	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthene	1.7	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthylene	0.18	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Anthracene	0.27	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluorene	0.26	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)

Project ID: ANOCOIL VERNON
Client ID: 1306170403-02

MW-07

Phoenix I.D.: BX97621

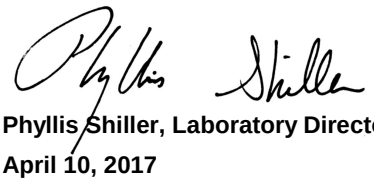
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Naphthalene	6.2	0.11	ug/L	1	04/05/17	DD	SW8270D (SIM)
Phenanthrene	0.22	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Pyrene	0.06	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	04/05/17	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	04/05/17	DD	30 - 130 %
% Terphenyl-d14	87		%	1	04/05/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

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
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	12:00
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97622

Project ID: ANOCOIL VERNON
Client ID: 1306170403-03 MW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	1.46	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	0.009	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	0.051	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	0.013	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	1.1	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	**		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	85		%	1	04/04/17	JRB	50 - 150 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthylene	0.26	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Anthracene	0.12	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.36	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.38	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.22	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.24	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.31	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Chrysene	0.39	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.07	0.01	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluoranthene	0.28	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)

Project ID: ANOCOIL VERNON
Client ID: 1306170403-03 MW-03

Phoenix I.D.: BX97622

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	0.23	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	04/05/17	DD	SW8270D (SIM)
Phenanthrene	0.07	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Pyrene	1.0	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/05/17	DD	30 - 130 %
% Nitrobenzene-d5	58		%	1	04/05/17	DD	30 - 130 %
% Terphenyl-d14	89		%	1	04/05/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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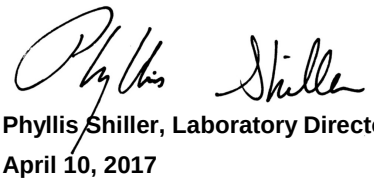

Phyllis Shiller, Laboratory Director
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	10:30
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97623

Project ID: ANOCOIL VERNON
Client ID: 1306170403-04 MW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	95		%	1	04/04/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170403-04

MW-02

Phoenix I.D.: BX97623

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170403-04

MW-02

Phoenix I.D.: BX97623

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	100		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	96		%	1	04/03/17	MH	70 - 130 %
% Toluene-d8	101		%	1	04/03/17	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	04/05/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	04/05/17	DD	30 - 130 %
% Nitrobenzene-d5	56		%	1	04/05/17	DD	30 - 130 %
% Terphenyl-d14	85		%	1	04/05/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Ver 1

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	11:20
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97624

Project ID: ANOCOIL VERNON
Client ID: 1306170403-05 MW-11

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum HC	ND	0.070	mg/L	1	04/04/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	04/04/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	60		%	1	04/04/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	04/03/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	04/03/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170403-05

MW-11

Phoenix I.D.: BX97624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Acetone	ND	25	ug/L	1	04/03/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	04/03/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	04/03/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	04/03/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	04/03/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	04/03/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	04/03/17	MH	SW8260

Project ID: ANOCOIL VERNON
Client ID: 1306170403-05 MW-11

Phoenix I.D.: BX97624

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	04/03/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	04/03/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	100		%	1	04/03/17	MH	70 - 130 %
% Bromofluorobenzene	99		%	1	04/03/17	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	04/03/17	MH	70 - 130 %
% Toluene-d8	100		%	1	04/03/17	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Naphthalene	0.18	0.10	ug/L	1	04/05/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	04/05/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	59		%	1	04/05/17	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	04/05/17	DD	30 - 130 %
% Terphenyl-d14	90		%	1	04/05/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Ver 1

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

April 10, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		04/03/17	13:40
Location Code:	F&O	Received by:	SW	04/03/17	14:26
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P60				

Laboratory Data

SDG ID: GBX97620
Phoenix ID: BX97625

Project ID: ANOCOIL VERNON
Client ID: 1306170403-06 MW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aluminum (10um)	0.653	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Arsenic (10um)	< 0.004	0.004	mg/L	1	04/04/17	LK	SW6010C/E200.7
Chromium (10um)	0.008	0.001	mg/L	1	04/04/17	LK	SW6010C/E200.7
Lead (10um)	< 0.002	0.002	mg/L	1	04/04/17	LK	SW6010C/E200.7
Extraction of CT ETPH	Completed				04/03/17	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				04/03/17	P/D	SW3520C
Total Metals Digestion	Completed				04/03/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum HC	250	7.2	mg/L	100	04/06/17	JRB	CTETPH 8015D
Identification	**		mg/L	100	04/06/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	Diluted Out		%	100	04/06/17	JRB	50 - 150 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	1400	49	ug/L	20	04/06/17	DD	SW8270D
Acenaphthene	920	32	ug/L	20	04/06/17	DD	SW8270D
Acenaphthylene	150	29	ug/L	20	04/06/17	DD	SW8270D
Anthracene	300	74	ug/L	20	04/06/17	DD	SW8270D
Benz(a)anthracene	130	36	ug/L	20	04/06/17	DD	SW8270D
Benzo(a)pyrene	84	34	ug/L	20	04/06/17	DD	SW8270D
Benzo(b)fluoranthene	ND	36	ug/L	20	04/06/17	DD	SW8270D
Benzo(ghi)perylene	ND	34	ug/L	20	04/06/17	DD	SW8270D
Benzo(k)fluoranthene	57	36	ug/L	20	04/06/17	DD	SW8270D
Chrysene	130	36	ug/L	20	04/06/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	34	ug/L	20	04/06/17	DD	SW8270D
Fluoranthene	ND	74	ug/L	20	04/06/17	DD	SW8270D
Fluorene	340	74	ug/L	20	04/06/17	DD	SW8270D

Project ID: ANOCOIL VERNON
Client ID: 1306170403-06

MW-13

Phoenix I.D.: BX97625

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Indeno(1,2,3-cd)pyrene	ND	36	ug/L	20	04/06/17	DD	SW8270D
Naphthalene	2100	280	ug/L	100	04/06/17	DD	SW8270D
Phenanthrene	1900	29	ug/L	20	04/06/17	DD	SW8270D
Pyrene	340	74	ug/L	20	04/06/17	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	Diluted Out		%	20	04/06/17	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	20	04/06/17	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	20	04/06/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

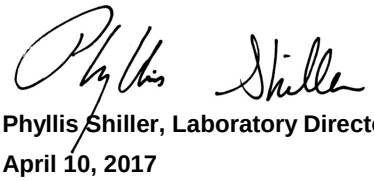
Comments:

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of 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
April 10, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

April 10, 2017

QA/QC Data

SDG I.D.: GBX97620

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 381309 (mg/L), QC Sample No: BX97371 (BX97621, BX97622, BX97625)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.125	0.101	21.2	101			102			75 - 125	20	r
Arsenic	BRL	0.004	<0.004	<0.004	NC	98.2			100			75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	98.0			98.2			75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	98.1			97.1			75 - 125	20	

r = This parameter is outside laboratory RPD specified recovery limits.

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QA/QC Report

April 10, 2017

QA/QC Data

SDG I.D.: GBX97620

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 381404 (ug/L), QC Sample No: BX96720 (BX97620, BX97623, BX97624)										
Volatiles - Water										
1,1,1,2-Tetrachloroethane	ND	1.0	109	104	4.7				70 - 130	30
1,1,1-Trichloroethane	ND	1.0	102	100	2.0				70 - 130	30
1,1,2,2-Tetrachloroethane	ND	0.50	120	117	2.5				70 - 130	30
1,1,2-Trichloroethane	ND	1.0	115	113	1.8				70 - 130	30
1,1-Dichloroethane	ND	1.0	105	102	2.9				70 - 130	30
1,1-Dichloroethene	ND	1.0	102	97	5.0				70 - 130	30
1,1-Dichloropropene	ND	1.0	102	99	3.0				70 - 130	30
1,2,3-Trichlorobenzene	ND	1.0	141	129	8.9				70 - 130	30
1,2,3-Trichloropropane	ND	1.0	114	108	5.4				70 - 130	30
1,2,4-Trichlorobenzene	ND	1.0	126	117	7.4				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	97	94	3.1				70 - 130	30
1,2-Dibromo-3-chloropropane	ND	1.0	143	135	5.8				70 - 130	30
1,2-Dibromoethane	ND	1.0	114	112	1.8				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	108	104	3.8				70 - 130	30
1,2-Dichloroethane	ND	1.0	113	109	3.6				70 - 130	30
1,2-Dichloropropane	ND	1.0	107	105	1.9				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	97	93	4.2				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	104	99	4.9				70 - 130	30
1,3-Dichloropropane	ND	1.0	110	108	1.8				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	104	100	3.9				70 - 130	30
2,2-Dichloropropane	ND	1.0	109	103	5.7				70 - 130	30
2-Chlorotoluene	ND	1.0	99	96	3.1				70 - 130	30
2-Hexanone	ND	5.0	103	101	2.0				70 - 130	30
2-Isopropyltoluene	ND	1.0	101	97	4.0				70 - 130	30
4-Chlorotoluene	ND	1.0	100	97	3.0				70 - 130	30
4-Methyl-2-pentanone	ND	5.0	107	103	3.8				70 - 130	30
Acetone	ND	5.0	100	94	6.2				70 - 130	30
Acrylonitrile	ND	5.0	116	111	4.4				70 - 130	30
Benzene	ND	0.70	102	100	2.0				70 - 130	30
Bromobenzene	ND	1.0	105	101	3.9				70 - 130	30
Bromochloromethane	ND	1.0	115	110	4.4				70 - 130	30
Bromodichloromethane	ND	0.50	113	110	2.7				70 - 130	30
Bromoform	ND	1.0	129	126	2.4				70 - 130	30
Bromomethane	ND	1.0	102	106	3.8				70 - 130	30
Carbon Disulfide	ND	1.0	103	100	3.0				70 - 130	30
Carbon tetrachloride	ND	1.0	103	100	3.0				70 - 130	30
Chlorobenzene	ND	1.0	101	99	2.0				70 - 130	30
Chloroethane	ND	1.0	111	108	2.7				70 - 130	30
Chloroform	ND	1.0	104	103	1.0				70 - 130	30
Chloromethane	ND	1.0	106	105	0.9				70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	105	99	5.9				70 - 130	30

QA/QC Data

SDG I.D.: GBX97620

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
cis-1,3-Dichloropropene	ND	0.40	113	109	3.6				70 - 130	30	
Dibromochloromethane	ND	0.50	123	118	4.1				70 - 130	30	
Dibromomethane	ND	1.0	112	110	1.8				70 - 130	30	
Dichlorodifluoromethane	ND	1.0	129	124	4.0				70 - 130	30	
Ethylbenzene	ND	1.0	99	97	2.0				70 - 130	30	
Hexachlorobutadiene	ND	0.40	102	95	7.1				70 - 130	30	
Isopropylbenzene	ND	1.0	96	92	4.3				70 - 130	30	
m&p-Xylene	ND	1.0	98	97	1.0				70 - 130	30	
Methyl ethyl ketone	ND	5.0	112	107	4.6				70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	123	120	2.5				70 - 130	30	
Methylene chloride	ND	1.0	104	102	1.9				70 - 130	30	
Naphthalene	ND	1.0	143	132	8.0				70 - 130	30	I
n-Butylbenzene	ND	1.0	100	96	4.1				70 - 130	30	
n-Propylbenzene	ND	1.0	96	93	3.2				70 - 130	30	
o-Xylene	ND	1.0	100	99	1.0				70 - 130	30	
p-Isopropyltoluene	ND	1.0	98	94	4.2				70 - 130	30	
sec-Butylbenzene	ND	1.0	101	96	5.1				70 - 130	30	
Styrene	ND	1.0	103	101	2.0				70 - 130	30	
tert-Butylbenzene	ND	1.0	96	93	3.2				70 - 130	30	
Tetrachloroethene	ND	1.0	101	99	2.0				70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	122	122	0.0				70 - 130	30	
Toluene	ND	1.0	102	100	2.0				70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	101	99	2.0				70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	114	111	2.7				70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	136	129	5.3				70 - 130	30	I
Trichloroethene	ND	1.0	102	100	2.0				70 - 130	30	
Trichlorofluoromethane	ND	1.0	106	103	2.9				70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	96	93	3.2				70 - 130	30	
Vinyl chloride	ND	1.0	118	115	2.6				70 - 130	30	
% 1,2-dichlorobenzene-d4	102	%	104	102	1.9				70 - 130	30	
% Bromofluorobenzene	100	%	100	100	0.0				70 - 130	30	
% Dibromofluoromethane	103	%	104	103	1.0				70 - 130	30	
% Toluene-d8	100	%	100	101	1.0				70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 381322 (ug/L), QC Sample No: BX97079 (BX97621, BX97622, BX97623, BX97624, BX97625)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	57	49	15.1				30 - 130	20	
Acenaphthene	ND	0.05	72	66	8.7				30 - 130	20	
Acenaphthylene	ND	0.04	70	61	13.7				30 - 130	20	
Anthracene	ND	0.02	84	76	10.0				30 - 130	20	
Benz(a)anthracene	ND	0.02	75	69	8.3				30 - 130	20	
Benzo(a)pyrene	ND	0.02	56	64	13.3				30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	80	74	7.8				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	50	54	7.7				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	81	74	9.0				30 - 130	20	
Chrysene	ND	0.02	78	72	8.0				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	66	58	12.9				30 - 130	20	
Fluoranthene	ND	0.04	84	74	12.7				30 - 130	20	
Fluorene	ND	0.05	73	67	8.6				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	43	46	6.7				30 - 130	20	
Naphthalene	ND	0.05	57	45	23.5				30 - 130	20	r

QA/QC Data

SDG I.D.: GBX97620

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Phenanthrene	ND	0.05	76	69	9.7				30 - 130	20	
Pyrene	ND	0.02	85	77	9.9				30 - 130	20	
% 2-Fluorobiphenyl	62	%	60	52	14.3				30 - 130	20	
% Nitrobenzene-d5	72	%	59	47	22.6				30 - 130	20	r
% Terphenyl-d14	72	%	80	70	13.3				30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 381192 (mg/L), QC Sample No: BX97084 (BX97621, BX97622, BX97623, BX97624, BX97625)

TPH by GC (Extractable Products) - Water

Ext. Petroleum H.C.	ND	0.10	61	55	10.3	54	63	15.4	60 - 120	30	l
% n-Pentacosane	68	%	72	67	7.2	65	65	0.0	50 - 150	20	

Comment:

Additional criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%.

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
April 10, 2017

Tuesday, April 11, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBX97620 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BX97622	$8100CTSIMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.07	0.01	0.01	0.01	ug/L
BX97622	$8100CTSIMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.31	0.05	0.3	0.3	ug/L
BX97622	$8100CTSIMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.38	0.05	0.3	0.3	ug/L
BX97622	$8100CTSIMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	0.36	0.05	0.3	0.3	ug/L
BX97622	AS-WM10	Arsenic (10um)	CT / INORGANIC SUBSTANCES / SWPC (µg/L)	0.009	0.004	0.004	0.004	mg/L
BX97625	$8100WMR	Phenanthrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	1900	29	0.3	0.3	ug/L
BX97625	$8100WMR	Dibenz(a,h)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	34	0.01	0.01	ug/L
BX97625	$8100WMR	Benzo(k)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	57	36	0.3	0.3	ug/L
BX97625	$8100WMR	Benzo(ghi)perylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	34	4.92	4.92	ug/L
BX97625	$8100WMR	Benzo(b)fluoranthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	ND	36	0.3	0.3	ug/L
BX97625	$8100WMR	Benzo(a)pyrene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	84	34	0.3	0.3	ug/L
BX97625	$8100WMR	Benz(a)anthracene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	130	36	0.3	0.3	ug/L
BX97625	$8100WMR	Acenaphthylene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	150	29	0.3	0.3	ug/L
BX97625	$8100WMR	Acenaphthene	CT / SEMIVOLATILE ORGANIC COMP / SWPC (µg/L)	920	32	6.1	6.1	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:*** Fuss & O'Neill, Inc.

Project Location: ANOCOIL VERNON ***Project Number:***

Laboratory Sample ID(s): BX97620-BX97625 ***Sampling Date(s):*** 4/3/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, ICP Narration, SVOA Narration, SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Monday, April 10, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 10, 2017

SDG I.D.: GBX97620

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Barium, Beryllium, Cadmium, Copper, Nickel, Selenium, Silver, Thallium, Vanadium, Zinc.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

BX97625 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

Semi-Volatile Analysis (BX97625):
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria. Not all requested reporting levels were achieved.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 381192 (Samples: BX97621, BX97622, BX97623, BX97624, BX97625): -----

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 H.C.)

Instrument:

AU-FID1 04/06/17-1 Jeff Bucko, Chemist 04/06/17

BX97621

The initial calibration (ETPH327I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 04/06/17-1 Jeff Bucko, Chemist 04/06/17

BX97625

The initial calibration (ETPH323I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 04/04/17-1 Jeff Bucko, Chemist 04/04/17

BX97622, BX97623, BX97624

The initial calibration (ETPH327I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 381192 (BX97084)

BX97621, BX97622, BX97623, BX97624, BX97625

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C.(55%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

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NY # 11301

RCP Certification Report

April 10, 2017

SDG I.D.: GBX97620

ETPH Narration

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 381309 (Samples: BX97621, BX97622, BX97625): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aluminum)

Instrument:

BLUE 04/04/17 11:10 Laura Kinnin, Chemist 04/04/17

BX97621, BX97622, BX97625

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Batch Specific):

Batch 381309 (BX97371)

BX97621, BX97622, BX97625

All LCS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

See SVOASIM Narration.

Instrument:

CHEM06 04/05/17-1 Damien Drobinski, Chemist 04/05/17

BX97625

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/SV_0405):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0405_12-SV_0405):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.

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NY # 11301

RCP Certification Report

April 10, 2017

SDG I.D.: GBX97620

SVOA Narration

The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM19 04/06/17-1 Damien Drobinski, Chemist 04/06/17

BX97625

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_0405):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0406_02-SV_0405):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 381322 (BX97079)

BX97621, BX97622, BX97623, BX97624, BX97625

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: % Nitrobenzene-d5(22.6%), Naphthalene(23.5%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 381322 (Samples: BX97621, BX97622, BX97623, BX97624, BX97625): -----

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Naphthalene)

The LCS/LCSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Nitrobenzene-d5)

Instrument:

CHEM07 04/05/17-1 Damien Drobinski, Chemist 04/05/17

BX97621, BX97622, BX97623, BX97624

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RCP Certification Report

April 10, 2017

SDG I.D.: GBX97620

SVOASIM Narration

Initial Calibration Verification (CHEM07/SIM_0329):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0405_02-SIM_0329):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 381322 (BX97079)

BX97621, BX97622, BX97623, BX97624, BX97625

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: % Nitrobenzene-d5(22.6%), Naphthalene(23.5%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 381404 (Samples: BX97620, BX97623, BX97624): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,2,3-Trichlorobenzene, 1,2-Dibromo-3-chloropropane, trans-1,4-dichloro-2-butene)

The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Naphthalene)

Instrument:

CHEM02 04/03/17-2 Michael Hahn, Chemist 04/03/17

BX97620, BX97623, BX97624

Initial Calibration Verification (CHEM02/VT-P0329):
95% of target compounds met criteria.
The following compounds had %RSDs >20%: 1,2-Dibromo-3-chloropropane 26% (20%), Bromoform 30% (20%), Bromomethane 29% (20%), Dibromochloromethane 21% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.026 (0.05), 2-Hexanone 0.077 (0.1), 4-Methyl-2-pentanone 0.088 (0.1), Acetone 0.036 (0.1), Bromoform 0.088 (0.1), Methyl ethyl ketone 0.059 (0.1), Tetrahydrofuran (THF) 0.034 (0.05)
The following compounds did not meet a minimum response factors: None.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

April 10, 2017

SDG I.D.: GBX97620

VOA Narration

Continuing Calibration Verification (CHEM02/0403P23-VT-P0329):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
94% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 1,2,3-Trichlorobenzene 31%H (30%), 1,2-Dibromo-3-chloropropane 31%H (30%), Bromoform 33%H (30%), Naphthalene 35%H (30%)
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.034 (0.05), Tetrahydrofuran (THF) 0.039 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 381404 (BX96720)

BX97620, BX97623, BX97624

All LCS recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(141%), 1,2-Dibromo-3-chloropropane(143%), Naphthalene(143%), trans-1,4-dichloro-2-butene(136%)
All LCSD recoveries were within 70 - 130 with the following exceptions: 1,2-Dibromo-3-chloropropane(135%), Naphthalene(132%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 5.1°C.
(Note acceptance criteria is above freezing up to 6°C)

5.1 IP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 37025

Turnaround
- [ ] 24-Hour*
- [ ] 48-Hour*
- [ ] 72-Hour*
- [X] Standard (5 days)
- [ ] Other _____ (days)

*Surcharge Applies

PROJECT NAME: Anocoil - Vernon
PROJECT LOCATION: Vernon CT
PROJECT NUMBER: 2001454.P60
LABORATORY: Phoenix

REPORT TO: Kevin Vanderee, F+O
INVOICE TO: ↓
~~P.O. No.:~~

Sampler's Signature: [signature] Date: ~~4~~ 4/3/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	ETPH	PAHs	AL, As, Cr, Pb (F; Hard)	Soil VOA Vial, □ methanol	Soil VOA Vial, □ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, □ As is, X HCl	Glass Amber (1ND) mL, X As is	Plastic - As is, □ 250 ml, □ H_2SO_4	Plastic - H_2SO_4, □ 250 ml	Plastic - HNO_3, 250 ml	Plastic - NaOH, 250 ml	X Filtered □ 0.45µ	X 10^{-4}	Comments
01					1306170403-01	X	4-3-17	0900	X									2							97620
02					-02	MW		1145		X	X	X							3			1			97621
03					-03	↓		1200		X	X	X							3			1			97622
04					-04			1030	X	X	X							3	3						97623
05					-05			1120	X	X	X							3	3						97624
06					-06	↓	↓	1340		X	X	X							3			1			97625

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	4/3/17	14:20
2				
3				
4				

Charge Exceptions: □ CT Tax Exempt □ QA/QC □ Other _____
____ Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables □ MCP CAM Cert.
SWPC, Res VC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Thursday, June 29, 2017

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BY44589 - BY44591

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

REVIEWED **DMS**
By pbibeau at 3:00 pm, Jun 29, 2017

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

June 29, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/22/17	8:30
Location Code:	F&O	Received by:	LB	06/22/17	10:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBY44589
Phoenix ID: BY44589

Project ID: FORMER ANOCOIL
Client ID: 1358170622-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	06/24/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170622-01

Trip Blank

Phoenix I.D.: BY44589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	06/24/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/24/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/24/17	MH	70 - 130 %
% Bromofluorobenzene	95		%	1	06/24/17	MH	70 - 130 %
% Dibromofluoromethane	102		%	1	06/24/17	MH	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170622-01

Trip Blank

Phoenix I.D.: BY44589

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	99		%	1	06/24/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
June 29, 2017
Reviewed and Released by: Ethan Lee, 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

June 29, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/22/17	9:00
Location Code:	F&O	Received by:	LB	06/22/17	10:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBY44589
Phoenix ID: BY44590

Project ID: FORMER ANOCOIL MW-02
Client ID: 1358170622-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				06/22/17	J/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/26/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	06/24/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/24/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	06/24/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	06/24/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170622-02

MW-02

Phoenix I.D.: BY44590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Acetone	ND	25	ug/L	1	06/24/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/24/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/24/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170622-02

MW-02

Phoenix I.D.: BY44590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	06/24/17	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	06/24/17	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	06/24/17	MH	70 - 130 %
% Toluene-d8	99		%	1	06/24/17	MH	70 - 130 %
Client MS/MSD	Completed				06/27/17		
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/27/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/27/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	06/27/17	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	06/27/17	DD	30 - 130 %
% Terphenyl-d14	80		%	1	06/27/17	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358170622-02

MW-02

Phoenix I.D.: BY44590

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
June 29, 2017
Reviewed and Released by: Ethan Lee, 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

June 29, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		06/22/17	9:10
Location Code:	F&O	Received by:	LB	06/22/17	10:45
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBY44589
Phoenix ID: BY44591

Project ID: FORMER ANOCOIL
Client ID: 1358170622-03 MW-02 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				06/22/17	J/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				06/26/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.075	mg/L	1	06/24/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	06/24/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	62		%	1	06/24/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
1,2-Dibromoethane	ND	0.25	ug/L	1	06/24/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	06/24/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170622-03

MW-02 Field Duplicate

Phoenix I.D.: BY44591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,3-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Acetone	ND	25	ug/L	1	06/24/17	MH	SW8260
Acrylonitrile	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	06/24/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	06/24/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	06/24/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	06/24/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	06/24/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	06/24/17	MH	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170622-03

MW-02 Field Duplicate

Phoenix I.D.: BY44591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Trichloroethene	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	06/24/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	06/24/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	06/24/17	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	06/24/17	MH	70 - 130 %
% Dibromofluoromethane	100		%	1	06/24/17	MH	70 - 130 %
% Toluene-d8	99		%	1	06/24/17	MH	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	06/27/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Naphthalene	ND	0.10	ug/L	1	06/27/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	06/27/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	50		%	1	06/27/17	DD	30 - 130 %
% Nitrobenzene-d5	49		%	1	06/27/17	DD	30 - 130 %
% Terphenyl-d14	83		%	1	06/27/17	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1358170622-03

MW-02 Field Duplicate

Phoenix I.D.: BY44591

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

DUPLICATE INCLUDED

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
June 29, 2017
Reviewed and Released by: Ethan Lee, 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

June 29, 2017

QA/QC Data

SDG I.D.: GBY44589

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 391028 (mg/L), QC Sample No: BY44590 (BY44590, BY44591)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	66	57	14.6	64	70	9.0	60 - 120	30	l
% n-Pentacosane	59	%	69	57	19.0	72	78	8.0	50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 391384 (ug/L), QC Sample No: BY44590 (BY44589, BY44590, BY44591)											
Volatiles - Water											
1,1,1,2-Tetrachloroethane	ND	1.0	95	95	0.0	106	107	0.9	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	88	88	0.0	110	108	1.8	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	100	94	6.2	115	112	2.6	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	96	90	6.5	114	111	2.7	70 - 130	30	
1,1-Dichloroethane	ND	1.0	96	96	0.0	114	115	0.9	70 - 130	30	
1,1-Dichloroethene	ND	1.0	91	92	1.1	115	117	1.7	70 - 130	30	
1,1-Dichloropropene	ND	1.0	89	91	2.2	117	116	0.9	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	118	121	2.5	94	147	44.0	70 - 130	30	m,r
1,2,3-Trichloropropane	ND	1.0	96	92	4.3	109	110	0.9	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	93	89	4.4	91	108	17.1	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	90	91	1.1	103	104	1.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	99	90	9.5	102	103	1.0	70 - 130	30	
1,2-Dibromoethane	ND	1.0	99	96	3.1	115	114	0.9	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	94	92	2.2	108	110	1.8	70 - 130	30	
1,2-Dichloroethane	ND	1.0	95	89	6.5	106	108	1.9	70 - 130	30	
1,2-Dichloropropane	ND	1.0	93	91	2.2	111	109	1.8	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	88	91	3.4	104	106	1.9	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	92	93	1.1	107	109	1.9	70 - 130	30	
1,3-Dichloropropane	ND	1.0	94	93	1.1	107	108	0.9	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	92	90	2.2	104	106	1.9	70 - 130	30	
2,2-Dichloropropane	ND	1.0	94	92	2.2	95	98	3.1	70 - 130	30	
2-Chlorotoluene	ND	1.0	93	94	1.1	109	108	0.9	70 - 130	30	
2-Hexanone	ND	5.0	92	84	9.1	103	102	1.0	70 - 130	30	
2-Isopropyltoluene	ND	1.0	87	87	0.0	102	105	2.9	70 - 130	30	
4-Chlorotoluene	ND	1.0	92	94	2.2	108	109	0.9	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	92	77	17.8	106	102	3.8	70 - 130	30	
Acetone	ND	5.0	120	89	29.7	98	105	6.9	70 - 130	30	
Acrylonitrile	ND	5.0	97	85	13.2	106	106	0.0	70 - 130	30	
Benzene	ND	0.70	92	92	0.0	111	111	0.0	70 - 130	30	
Bromobenzene	ND	1.0	94	96	2.1	108	108	0.0	70 - 130	30	
Bromochloromethane	ND	1.0	95	89	6.5	109	111	1.8	70 - 130	30	
Bromodichloromethane	ND	0.50	96	91	5.3	110	111	0.9	70 - 130	30	
Bromoform	ND	1.0	100	96	4.1	105	105	0.0	70 - 130	30	
Bromomethane	ND	1.0	78	77	1.3	35	59	51.1	70 - 130	30	m,r

QA/QC Data

SDG I.D.: GBY44589

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Carbon Disulfide	ND	1.0	95	96	1.0	117	121	3.4	70 - 130	30	
Carbon tetrachloride	ND	1.0	87	88	1.1	110	113	2.7	70 - 130	30	
Chlorobenzene	ND	1.0	91	93	2.2	108	107	0.9	70 - 130	30	
Chloroethane	ND	1.0	86	85	1.2	101	100	1.0	70 - 130	30	
Chloroform	ND	1.0	89	88	1.1	105	105	0.0	70 - 130	30	
Chloromethane	ND	1.0	79	78	1.3	90	91	1.1	70 - 130	30	
cis-1,2-Dichloroethene	ND	1.0	97	95	2.1	116	114	1.7	70 - 130	30	
cis-1,3-Dichloropropene	ND	0.40	97	91	6.4	106	109	2.8	70 - 130	30	
Dibromochloromethane	ND	0.50	103	98	5.0	112	112	0.0	70 - 130	30	
Dibromomethane	ND	1.0	98	93	5.2	115	115	0.0	70 - 130	30	
Dichlorodifluoromethane	ND	1.0	76	76	0.0	87	88	1.1	70 - 130	30	
Ethylbenzene	ND	1.0	90	92	2.2	110	108	1.8	70 - 130	30	
Hexachlorobutadiene	ND	0.40	93	97	4.2	100	115	14.0	70 - 130	30	
Isopropylbenzene	ND	1.0	88	91	3.4	109	108	0.9	70 - 130	30	
m&p-Xylene	ND	1.0	88	90	2.2	108	106	1.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	84	72	15.4	90	97	7.5	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	103	94	9.1	116	118	1.7	70 - 130	30	
Methylene chloride	ND	1.0	94	90	4.3	106	107	0.9	70 - 130	30	
Naphthalene	ND	1.0	113	110	2.7	92	130	34.2	70 - 130	30	r
n-Butylbenzene	ND	1.0	89	90	1.1	108	111	2.7	70 - 130	30	
n-Propylbenzene	ND	1.0	90	91	1.1	108	110	1.8	70 - 130	30	
o-Xylene	ND	1.0	93	93	0.0	108	109	0.9	70 - 130	30	
p-Isopropyltoluene	ND	1.0	89	89	0.0	108	111	2.7	70 - 130	30	
sec-Butylbenzene	ND	1.0	92	90	2.2	113	115	1.8	70 - 130	30	
Styrene	ND	1.0	95	93	2.1	108	108	0.0	70 - 130	30	
tert-Butylbenzene	ND	1.0	88	89	1.1	107	110	2.8	70 - 130	30	
Tetrachloroethene	ND	1.0	93	89	4.4	121	118	2.5	70 - 130	30	
Tetrahydrofuran (THF)	ND	2.5	81	75	7.7	95	94	1.1	70 - 130	30	
Toluene	ND	1.0	90	90	0.0	111	111	0.0	70 - 130	30	
trans-1,2-Dichloroethene	ND	1.0	95	93	2.1	112	115	2.6	70 - 130	30	
trans-1,3-Dichloropropene	ND	0.40	94	87	7.7	104	104	0.0	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	100	91	9.4	88	87	1.1	70 - 130	30	
Trichloroethene	ND	1.0	90	91	1.1	118	115	2.6	70 - 130	30	
Trichlorofluoromethane	ND	1.0	79	80	1.3	98	101	3.0	70 - 130	30	
Trichlorotrifluoroethane	ND	1.0	87	88	1.1	106	105	0.9	70 - 130	30	
Vinyl chloride	ND	1.0	80	83	3.7	98	101	3.0	70 - 130	30	
% 1,2-dichlorobenzene-d4	98	%	99	99	0.0	100	101	1.0	70 - 130	30	
% Bromofluorobenzene	96	%	97	97	0.0	96	97	1.0	70 - 130	30	
% Dibromofluoromethane	98	%	102	97	5.0	100	100	0.0	70 - 130	30	
% Toluene-d8	98	%	100	100	0.0	100	100	0.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 391416 (ug/L), QC Sample No: BY44590 (BY44590, BY44591)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	45	45	0.0	52	50	3.9	30 - 130	20	
Acenaphthene	ND	0.05	64	65	1.6	62	62	0.0	30 - 130	20	
Acenaphthylene	ND	0.04	63	60	4.9	70	70	0.0	30 - 130	20	
Anthracene	ND	0.02	68	71	4.3	88	82	7.1	30 - 130	20	
Benz(a)anthracene	ND	0.02	63	64	1.6	89	85	4.6	30 - 130	20	
Benzo(a)pyrene	ND	0.02	64	60	6.5	87	83	4.7	30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	68	74	8.5	89	87	2.3	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	59	53	10.7	65	62	4.7	30 - 130	20	

QA/QC Data

SDG I.D.: GBY44589

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzo(k)fluoranthene	ND	0.02	68	75	9.8	92	85	7.9	30 - 130	20
Chrysene	ND	0.02	70	74	5.6	88	84	4.7	30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	70	65	7.4	84	80	4.9	30 - 130	20
Fluoranthene	ND	0.04	63	67	6.2	82	79	3.7	30 - 130	20
Fluorene	ND	0.05	63	65	3.1	74	72	2.7	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	65	60	8.0	80	76	5.1	30 - 130	20
Naphthalene	ND	0.05	43	40	7.2	40	41	2.5	30 - 130	20
Phenanthrene	ND	0.05	64	66	3.1	71	67	5.8	30 - 130	20
Pyrene	ND	0.02	64	67	4.6	82	78	5.0	30 - 130	20
% 2-Fluorobiphenyl	71	%	58	62	6.7	55	52	5.6	30 - 130	20
% Nitrobenzene-d5	73	%	43	39	9.8	46	45	2.2	30 - 130	20
% Terphenyl-d14	75	%	68	75	9.8	86	79	8.5	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%)

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
June 29, 2017

Thursday, June 29, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBY44589 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BY44589-BY44591 ***Sampling Date(s):*** 6/22/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ETPH Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Thursday, June 29, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

June 29, 2017

SDG I.D.: GBY44589

SDG Comments

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? No.

QC Batch 391028 (Samples: BY44590, BY44591): -----

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 H.C. (C9-C36))

Instrument:

AU-XL1 06/23/17-1 Jeff Bucko, Chemist 06/23/17

BY44590, BY44591

The initial calibration (ETPH623I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 391028 (BY44590)

BY44590, BY44591

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: Ext. Petroleum H.C. (C9-C36)(57%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM07 06/27/17-1 Damien Drobinski, Chemist 06/27/17

BY44590, BY44591

Initial Calibration Verification (CHEM07/SIM_0513):
96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0627_02D-SIM_0513):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.

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RCP Certification Report

June 29, 2017

SDG I.D.: GBY44589

SVOASIM Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 391416 (BY44590)

BY44590, BY44591

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 391384 (Samples: BY44589, BY44590, BY44591): -----

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. (Bromomethane)

The MS and/or the MSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (1,2,3-Trichlorobenzene)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (1,2,3-Trichlorobenzene, Bromomethane, Naphthalene)

Instrument:

CHEM17 06/24/17-1 Michael Hahn, Chemist 06/24/17

BY44589, BY44590, BY44591

Initial Calibration Verification (CHEM17/VT-S0621):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Bromomethane 31% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.031 (0.05), 2-Hexanone 0.080 (0.1), Acetone 0.057 (0.1), Bromoform 0.084 (0.1), Methyl ethyl ketone 0.075 (0.1), Tetrahydrofuran (THF) 0.049 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0624S02-VT-S0621):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.

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RCP Certification Report

June 29, 2017

SDG I.D.: GBY44589

VOA Narration

The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.276 (0.3), 1,2-Dibromo-3-chloropropane 0.029 (0.05), Bromoform 0.094 (0.1), Tetrahydrofuran (THF) 0.045 (0.05)
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 391384 (BY44590)

BY44589, BY44590, BY44591

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Bromomethane(35%)
All MSD recoveries were within 70 - 130 with the following exceptions: 1,2,3-Trichlorobenzene(147%), Bromomethane(59%)
All MS/MSD RPDs were less than 30% with the following exceptions: 1,2,3-Trichlorobenzene(44.0%), Bromomethane(51.1%), Naphthalene(34.2%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 4.2°C.
(Note acceptance criteria is above freezing up to 6°C)

4.2°w/c i TP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

- [X] 146 Hartford Road, Manchester, CT 06040
- [ ] 56 Quarry Road, Trumbull, CT 06611
- [ ] 1419 Richland Street, Columbia, SC 29201
- [ ] 78 Interstate Drive, West Springfield, MA 01089
- [ ] 317 Iron Horse Way, Suite 204, Providence, RI 02908
- [ ] 80 Washington Street, Suite 301, Poughkeepsie, NY
- [ ] Other _____

CHAIN-OF-CUSTODY RECORD 36993

Turnaround
- [ ] 24-Hour*
- [ ] 72-Hour*
- [ ] Other _____ (days)
- [ ] 48-Hour*
- [X] Standard (5 days)
- *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Mascot	Rockville / Vernon CT	~~2200~~ 20014454.R20	Phoenix

REPORT TO: Kevin Vandeveer, T70
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 6/22/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blk

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: VOCs	ETPH	PAHs	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water ☐ $Na(SO_4)_2$	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is ☒ HCl	Glass Amber (1000) ml, ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					13581706 22-01	X	6/22/17	0830	X								2		4458	9			TB
02					↓ -02	GW	↓	0900	X	X	X						9	9	4459	0			MS/MSD
03					↓ -03	MW	↓	0910	X	X	X						3	3	4459	1			no charge

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	CParadino	6/22/17	1045
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☒ QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos: 01)

Reporting and Detection Limit Requirements: ☒ RCP Deliverables ☐ MCP CAM Cert.
@ SWPC, Res VC

Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Friday, September 01, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BY90081 - BY90086

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

REVIEWED **DMS**
By pbibeau at 8:35 am, Sep 05, 2017

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

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/24/17	10:00
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90081

Project ID: FORMER ANOCOIL
Client ID: 1358170824-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	08/24/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	08/24/17	HM	70 - 130 %

Ver 1

Project ID: FORMER ANOCOIL
Client ID: 1358170824-01

Trip Blank

Phoenix I.D.: BY90081

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	98		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	101		%	1	08/24/17	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, 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

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		08/24/17	10:16
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90082

Project ID: FORMER ANOCOIL
Client ID: 1358170824-02 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				08/28/17	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				08/28/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.077	mg/L	1	08/29/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/29/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	64		%	1	08/29/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	08/24/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	08/24/17	HM	70 - 130 %
% Dibromofluoromethane	91		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	102		%	1	08/24/17	HM	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	0.11	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthene	1.4	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthylene	0.30	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Anthracene	0.32	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.28	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.31	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.24	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.17	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.25	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Chrysene	0.29	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.04	0.01	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluoranthene	0.85	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluorene	0.84	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.17	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Naphthalene	0.44	0.11	ug/L	1	08/29/17	DD	SW8270D (SIM)
Phenanthrene	0.67	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Pyrene	1.0	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	78		%	1	08/29/17	DD	30 - 130 %
% Nitrobenzene-d5	81		%	1	08/29/17	DD	30 - 130 %
% Terphenyl-d14	68		%	1	08/29/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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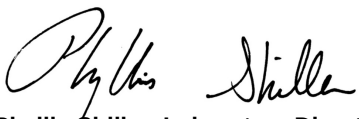

Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		08/24/17	10:48
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90083

Project ID: FORMER ANOCOIL
Client ID: 1358170824-03 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				08/28/17	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				08/28/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.071	mg/L	1	08/29/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/29/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	52		%	1	08/29/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	9.4	5.0	ug/L	1	08/24/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170824-03

MW-07

Phoenix I.D.: BY90083

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	99		%	1	08/24/17	HM	70 - 130 %
% Dibromofluoromethane	98		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	103		%	1	08/24/17	HM	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthene	0.34	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthylene	0.06	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Anthracene	0.07	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluoranthene	0.06	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Naphthalene	0.19	0.10	ug/L	1	08/29/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Pyrene	0.14	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	62		%	1	08/29/17	DD	30 - 130 %
% Nitrobenzene-d5	55		%	1	08/29/17	DD	30 - 130 %
% Terphenyl-d14	64		%	1	08/29/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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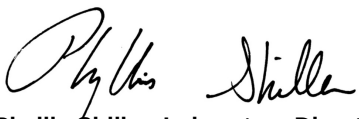

Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		08/24/17	11:50
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90084

Project ID: FORMER ANOCOIL
Client ID: 1358170824-04 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				08/28/17	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				08/28/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.075	mg/L	1	08/29/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/29/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	65		%	1	08/29/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	08/24/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170824-04 MW-14

Phoenix I.D.: BY90084

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	99		%	1	08/24/17	HM	70 - 130 %
% Dibromofluoromethane	94		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	101		%	1	08/24/17	HM	70 - 130 %
Client MS/MSD	Completed				08/29/17		

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.01	0.01	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluoranthene	0.13	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	08/29/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
Pyrene	0.15	0.05	ug/L	1	08/29/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	64		%	1	08/29/17	DD	30 - 130 %
% Nitrobenzene-d5	60		%	1	08/29/17	DD	30 - 130 %
% Terphenyl-d14	87		%	1	08/29/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Ver 1

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		08/24/17	12:50
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90085

Project ID: FORMER ANOCOIL
Client ID: 1358170824-05 MW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				08/28/17	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				08/28/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.81	0.078	mg/L	1	08/29/17	JRB	CTETPH 8015D
Identification	**		mg/L	1	08/29/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	66		%	1	08/29/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	26	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	6.2	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	25	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	130	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	45	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	54	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	580	50	ug/L	10	08/29/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	2.9	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	84	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	8.4	1.0	ug/L	1	08/24/17	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1358170824-05

MW-13

Phoenix I.D.: BY90085

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	12	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	30	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	138.0	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	100		%	1	08/24/17	HM	70 - 130 %
% Dibromofluoromethane	94		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	103		%	1	08/24/17	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	41	18	ug/L	5	08/30/17	DD	SW8270D
Acenaphthene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Acenaphthylene	ND	7.1	ug/L	5	08/30/17	DD	SW8270D
Anthracene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Benz(a)anthracene	ND	8.7	ug/L	5	08/30/17	DD	SW8270D
Benzo(a)pyrene	ND	8.2	ug/L	5	08/30/17	DD	SW8270D
Benzo(b)fluoranthene	ND	8.7	ug/L	5	08/30/17	DD	SW8270D
Benzo(ghi)perylene	ND	8.2	ug/L	5	08/30/17	DD	SW8270D
Benzo(k)fluoranthene	ND	8.7	ug/L	5	08/30/17	DD	SW8270D
Chrysene	ND	8.7	ug/L	5	08/30/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	8.2	ug/L	5	08/30/17	DD	SW8270D
Fluoranthene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Fluorene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	8.7	ug/L	5	08/30/17	DD	SW8270D
Naphthalene	240	18	ug/L	5	08/30/17	DD	SW8270D
Phenanthrene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Pyrene	ND	18	ug/L	5	08/30/17	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	63		%	5	08/30/17	DD	30 - 130 %
% Nitrobenzene-d5	46		%	5	08/30/17	DD	30 - 130 %
% Terphenyl-d14	55		%	5	08/30/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
The client requested semivolatile SIM analysis for some compounds. Due to sample matrix, the sample had to be run full scan and could not be evaluated to the requested detection levels.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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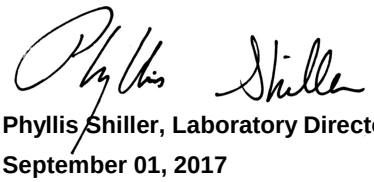

Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, Project Manager

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

September 01, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	GROUND WATER	Collected by:		08/24/17	13:00
Location Code:	F&O	Received by:	SW	08/24/17	14:40
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454R20				

Laboratory Data

SDG ID: GBY90081
Phoenix ID: BY90086

Project ID: FORMER ANOCOIL
Client ID: 1358170824-06

MW-13 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				08/28/17	P/UU	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				08/28/17	P/UU	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	1.0	0.078	mg/L	1	08/30/17	JRB	CTETPH 8015D
Identification	**		mg/L	1	08/30/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	08/30/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,2,4-Trimethylbenzene	25	1.0	ug/L	1	08/24/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,3,5-Trimethylbenzene	5.9	1.0	ug/L	1	08/24/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Benzene	24	1.0	ug/L	1	08/24/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Ethylbenzene	130	1.0	ug/L	1	08/24/17	HM	SW8260
Isopropylbenzene	43	1.0	ug/L	1	08/24/17	HM	SW8260
m&p-Xylene	54	2.0	ug/L	1	08/24/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	08/24/17	HM	SW8260
Naphthalene	610	50	ug/L	10	08/29/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
n-Propylbenzene	2.8	1.0	ug/L	1	08/24/17	HM	SW8260
o-Xylene	82	1.0	ug/L	1	08/24/17	HM	SW8260
p-Isopropyltoluene	8.2	1.0	ug/L	1	08/24/17	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Styrene	12	1.0	ug/L	1	08/24/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/24/17	HM	SW8260
Toluene	28	1.0	ug/L	1	08/24/17	HM	SW8260
Total Xylenes	136.0	1.0	ug/L	1	08/24/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	08/24/17	HM	70 - 130 %
% Bromofluorobenzene	101		%	1	08/24/17	HM	70 - 130 %
% Dibromofluoromethane	96		%	1	08/24/17	HM	70 - 130 %
% Toluene-d8	103		%	1	08/24/17	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	41	18	ug/L	5	08/30/17	DD	SW8270D
Acenaphthene	20	18	ug/L	5	08/30/17	DD	SW8270D
Acenaphthylene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Anthracene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Benz(a)anthracene	ND	8.6	ug/L	5	08/30/17	DD	SW8270D
Benzo(a)pyrene	ND	8.1	ug/L	5	08/30/17	DD	SW8270D
Benzo(b)fluoranthene	ND	8.6	ug/L	5	08/30/17	DD	SW8270D
Benzo(ghi)perylene	ND	8.1	ug/L	5	08/30/17	DD	SW8270D
Benzo(k)fluoranthene	ND	8.6	ug/L	5	08/30/17	DD	SW8270D
Chrysene	ND	8.6	ug/L	5	08/30/17	DD	SW8270D
Dibenz(a,h)anthracene	ND	8.1	ug/L	5	08/30/17	DD	SW8270D
Fluoranthene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Fluorene	ND	18	ug/L	5	08/30/17	DD	SW8270D
Indeno(1,2,3-cd)pyrene	ND	8.6	ug/L	5	08/30/17	DD	SW8270D
Naphthalene	230	18	ug/L	5	08/30/17	DD	SW8270D
Phenanthrene	18	18	ug/L	5	08/30/17	DD	SW8270D
Pyrene	ND	18	ug/L	5	08/30/17	DD	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	75		%	5	08/30/17	DD	30 - 130 %
% Nitrobenzene-d5	57		%	5	08/30/17	DD	30 - 130 %
% Terphenyl-d14	79		%	5	08/30/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**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.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Semi-Volatile Comment:
The client requested semivolatile SIM analysis for some compounds. Due to sample matrix, the sample had to be run full scan and could not be evaluated to the requested detection levels.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

If there are any questions regarding this data, please call Phoenix Client Services.
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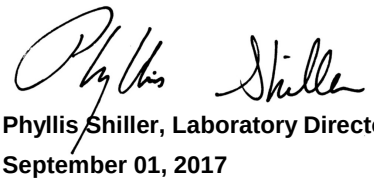

Phyllis Shiller, Laboratory Director
September 01, 2017
Reviewed and Released by: Ethan Lee, Project Manager

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

September 01, 2017

QA/QC Data

SDG I.D.: GBY90081

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 399466 (mg/L), QC Sample No: BY90084 (BY90082, BY90083, BY90084, BY90085, BY90086)										
TPH by GC (Extractable Products) - Ground Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.094	85	75	12.5	72	71	1.4	60 - 120	30
% n-Pentacosane	74	%	83	74	11.5	78	71	9.4	50 - 150	20
Comment:										
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.										
QA/QC Batch 399230 (ug/L), QC Sample No: BY90084 (BY90081, BY90082, BY90083, BY90084, BY90085, BY90086)										
Volatiles - Water, Ground Water										
1,2,3-Trichlorobenzene	ND	1.0	110	113	2.7	116	118	1.7	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	110	113	2.7	118	119	0.8	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	108	110	1.8	117	118	0.9	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	108	109	0.9	115	117	1.7	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	110	111	0.9	120	121	0.8	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	109	111	1.8	118	120	1.7	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	106	109	2.8	115	116	0.9	70 - 130	30
Benzene	ND	0.70	110	114	3.6	123	124	0.8	70 - 130	30
Chlorobenzene	ND	1.0	109	111	1.8	118	119	0.8	70 - 130	30
Ethylbenzene	ND	1.0	108	111	2.7	120	121	0.8	70 - 130	30
Isopropylbenzene	ND	1.0	108	110	1.8	120	124	3.3	70 - 130	30
m&p-Xylene	ND	1.0	113	115	1.8	125	126	0.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	114	114	0.0	118	119	0.8	70 - 130	30
Naphthalene	ND	1.0	114	120	5.1	122	126	3.2	70 - 130	30
n-Butylbenzene	ND	1.0	112	117	4.4	123	125	1.6	70 - 130	30
n-Propylbenzene	ND	1.0	108	111	2.7	119	124	4.1	70 - 130	30
o-Xylene	ND	1.0	110	114	3.6	121	124	2.4	70 - 130	30
p-Isopropyltoluene	ND	1.0	111	114	2.7	123	125	1.6	70 - 130	30
sec-Butylbenzene	ND	1.0	114	116	1.7	127	128	0.8	70 - 130	30
Styrene	ND	1.0	115	116	0.9	123	126	2.4	70 - 130	30
tert-Butylbenzene	ND	1.0	107	110	2.8	120	122	1.7	70 - 130	30
Toluene	ND	1.0	109	112	2.7	122	121	0.8	70 - 130	30
% 1,2-dichlorobenzene-d4	98	%	101	99	2.0	101	98	3.0	70 - 130	30
% Bromofluorobenzene	98	%	102	100	2.0	103	102	1.0	70 - 130	30
% Dibromofluoromethane	103	%	102	99	3.0	100	98	2.0	70 - 130	30
% Toluene-d8	102	%	99	100	1.0	102	99	3.0	70 - 130	30
Comment:										
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.										
QA/QC Batch 399465 (ug/L), QC Sample No: BY90084 (BY90082, BY90083, BY90084, BY90085, BY90086)										
Semivolatiles by SIM - Ground Water										
2-Methylnaphthalene	ND	0.05	77	67	13.9	67	59	12.7	30 - 130	20
Acenaphthene	ND	0.05	87	80	8.4	80	73	9.2	30 - 130	20
Acenaphthylene	ND	0.04	87	79	9.6	79	71	10.7	30 - 130	20

QA/QC Data

SDG I.D.: GBY90081

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Anthracene	ND	0.02	92	85	7.9	82	64	24.7	30 - 130	20	r
Benz(a)anthracene	ND	0.02	92	86	6.7	76	60	23.5	30 - 130	20	r
Benzo(a)pyrene	ND	0.02	86	79	8.5	59	56	5.2	30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	87	83	4.7	65	58	11.4	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	84	76	10.0	53	56	5.5	30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	90	82	9.3	62	60	3.3	30 - 130	20	
Chrysene	ND	0.02	82	76	7.6	67	59	12.7	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	94	87	7.7	59	62	5.0	30 - 130	20	
Fluoranthene	ND	0.04	90	84	6.9	93	80	15.0	30 - 130	20	
Fluorene	ND	0.05	88	82	7.1	84	75	11.3	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	88	80	9.5	57	60	5.1	30 - 130	20	
Naphthalene	ND	0.05	74	64	14.5	61	57	6.8	30 - 130	20	
Phenanthrene	ND	0.05	82	76	7.6	81	69	16.0	30 - 130	20	
Pyrene	ND	0.02	92	86	6.7	91	74	20.6	30 - 130	20	r
% 2-Fluorobiphenyl	79	%	81	75	7.7	72	65	10.2	30 - 130	20	
% Nitrobenzene-d5	79	%	70	64	9.0	61	58	5.0	30 - 130	20	
% Terphenyl-d14	93	%	97	93	4.2	70	41	52.3	30 - 130	20	r

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 399710 (ug/L), QC Sample No: BY90935 (BY90085 (10X) , BY90086 (10X))

Volatiles - Ground Water

Naphthalene	ND	1.0	110	111	0.9	115	120	4.3	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

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
September 01, 2017

Friday, September 01, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBY90081 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BY90082	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.67	0.05	0.077	0.077	ug/L
BY90082	$8100CTSIMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.31	0.05	0.3	0.3	ug/L
BY90085	$8020WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	580	50	210	210	ug/L
BY90085	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	ND	18	14	14	ug/L
BY90085	$8100WMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.7	0.54	0.54	ug/L
BY90085	$8100WMR	Dibenz(a,h)anthracene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.2	0.3	0.3	ug/L
BY90085	$8100WMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.7	0.54	0.54	ug/L
BY90085	$8100WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	240	18	210	210	ug/L
BY90085	$8100WMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	7.1	0.3	0.3	ug/L
BY90085	$8100WMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.7	0.3	0.3	ug/L
BY90085	$8100WMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.2	0.3	0.3	ug/L
BY90085	$8100WMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.7	0.3	0.3	ug/L
BY90085	$8100WMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.7	0.3	0.3	ug/L
BY90085	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	18	0.077	0.077	ug/L
BY90085	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.81	0.078	0.25	0.25	mg/L
BY90086	$8020WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	610	50	210	210	ug/L
BY90086	$8100WMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.6	0.54	0.54	ug/L
BY90086	$8100WMR	Dibenz(a,h)anthracene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.1	0.3	0.3	ug/L
BY90086	$8100WMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	ND	8.6	0.54	0.54	ug/L
BY90086	$8100WMR	Naphthalene	CT / RSR SWPC (ug/l) / APS Organics	230	18	210	210	ug/L
BY90086	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	18	18	14	14	ug/L
BY90086	$8100WMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	18	0.3	0.3	ug/L
BY90086	$8100WMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.6	0.3	0.3	ug/L
BY90086	$8100WMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.1	0.3	0.3	ug/L
BY90086	$8100WMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.6	0.3	0.3	ug/L
BY90086	$8100WMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	ND	8.6	0.3	0.3	ug/L
BY90086	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	18	18	0.077	0.077	ug/L
BY90086	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	1.0	0.078	0.25	0.25	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:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BY90081-BY90086 ***Sampling Date(s):*** 8/24/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, SVOASIM Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Friday, September 01, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

September 01, 2017

SDG I.D.: GBY90081

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
The client requested a short list for 8270 RCP Semivolatile. Only the PAH constituents are reported as requested on the chain-of-custody.

BY90085, BY90086 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID21 08/29/17-1 Jeff Bucko, Chemist 08/29/17

BY90082, BY90083, BY90084, BY90085

The initial calibration (ETPH819I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID21 08/30/17-1 Jeff Bucko, Chemist 08/30/17

BY90086

The initial calibration (ETPH819I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 399466 (BY90084)

BY90082, BY90083, BY90084, BY90085, BY90086

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

See SVOASIM Narraton.

Instrument:

CHEM19 08/30/17-1 Damien Drobinski, Chemist 08/30/17

BY90085, BY90086

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in

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RCP Certification Report

September 01, 2017

SDG I.D.: GBY90081

SVOA Narration

control.

Initial Calibration Verification (CHEM19/SPLIT_0825):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM19/0830_02A-SPLIT_0825):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 399465 (BY90084)

BY90082, BY90083, BY90084, BY90085, BY90086

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: % Terphenyl-d14(52.3%), Anthracene(24.7%), Benz(a)anthracene(23.5%), Pyrene(20.6%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 399465 (Samples: BY90082, BY90083, BY90084, BY90085, BY90086): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Anthracene, Benz(a)anthracene, Pyrene)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% Terphenyl-d14)

Instrument:

CHEM07 08/29/17-1 Damien Drobinski, Chemist 08/29/17

BY90082, BY90083, BY90084

Initial Calibration Verification (CHEM07/SIM_0829):

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RCP Certification Report

September 01, 2017

SDG I.D.: GBY90081

SVOASIM Narration

96% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/0829_13-SIM_0829):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 399465 (BY90084)

BY90082, BY90083, BY90084, BY90085, BY90086

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: % Terphenyl-d14(52.3%), Anthracene(24.7%), Benz(a)anthracene(23.5%), Pyrene(20.6%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM16 08/24/17-2 Harry Mullin, Chemist 08/24/17

BY90081, BY90082, BY90083, BY90084, BY90085, BY90086

Initial Calibration Verification (CHEM16/VT-H0823):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/0824H13-VT-H0823):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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NY # 11301

RCP Certification Report

September 01, 2017

SDG I.D.: GBY90081

VOA Narration

CHEM16 08/29/17-1 Harry Mullin, Chemist 08/29/17

BY90085, BY90086

Initial Calibration Verification (CHEM16/VT-H0828):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Naphthalene 24% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/0829H02-VT-H0828):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 399710 (BY90935)

BY90085, BY90086

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 399230 (BY90084)

BY90081, BY90082, BY90083, BY90084, BY90085, BY90086

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 3.4°C.
(Note acceptance criteria is above freezing up to 6°C)

3.4 COOLER

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 38697

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER ANSCOIL	ROCKVILLE CT	2001454.R20	PHOENIX

REPORT TO: KEVIN VANDERVEER, FUSS + O'NEILL
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 8/24/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other TRIP BLANK

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: AVOCs	ETPH	PAHs	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Na(SO4)2	Other:	Other:	Water VOA Vial, ☐ As is X HCl	Glass Amber (1000 ml) X As is ☐ H2SO4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H2SO4, ☐ 250 ml ☐ 500 ml	Plastic - HNO3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					135817082401	X	8/24/17	1000	X									2						90081
02					-02	GW		1016	X	X	X							3	3					90082
03					-03			1048	X	X	X							3	3					90083
04					-04			1150	X	X	X							9	9					90084 MS/MSD
05					-05			1250	X	X	X							3	3					90085
06					-06	↓	↓	1300	X	X	X							3	3					90086 DISCHARGE

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	[signature]	8/24/17	14:40
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
SWPC, RES VC
Additional Comments:

PHOENIX
Environmental Laboratories, Inc.

Wednesday, December 06, 2017

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BZ44509 - BZ44512

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

REVIEWED DMS
By pbibeau at 7:17 am, Dec 07, 2017

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Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

SDG Comments

December 06, 2017

SDG I.D.: GBZ44509

Version 2:
Reporting level for BZ44511 ETPH has been corrected.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/20/17	8:45
Location Code:	F&O	Received by:	LB	11/20/17	13:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ44509
Phoenix ID: BZ44509

Project ID: FORMER ANOCOIL
Client ID: 1358171120-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	11/20/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	11/20/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	11/20/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/20/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/20/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	103		%	1	11/20/17	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	11/20/17	HM	70 - 130 %

Ver 2

Project ID: FORMER ANOCOIL Trip Blank Phoenix I.D.: BZ44509
Client ID: 1358171120-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	103		%	1	11/20/17	HM	70 - 130 %
% Toluene-d8	97		%	1	11/20/17	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 06, 2017
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

December 06, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/20/17	9:42
Location Code:	F&O	Received by:	LB	11/20/17	13:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ44509
Phoenix ID: BZ44510

Project ID: FORMER ANOCOIL
Client ID: 1358171120-02 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				11/21/17	P/Q	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				11/21/17	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.075	mg/L	1	11/22/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	11/22/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	11/22/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	11/21/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/21/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/21/17	HM	70 - 130 %
% Bromofluorobenzene	95		%	1	11/21/17	HM	70 - 130 %
% Dibromofluoromethane	106		%	1	11/21/17	HM	70 - 130 %
% Toluene-d8	95		%	1	11/21/17	HM	70 - 130 %
Client MS/MSD	Completed				11/22/17		

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	11/22/17	DD	SW8270D (SIM)
Fluoranthene	0.11	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	11/22/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
Pyrene	0.14	0.05	ug/L	1	11/22/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	49		%	1	11/22/17	DD	30 - 130 %
% Nitrobenzene-d5	44		%	1	11/22/17	DD	30 - 130 %
% Terphenyl-d14	80		%	1	11/22/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
December 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 2

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/20/17	9:50
Location Code:	F&O	Received by:	LB	11/20/17	13:42
Rush Request:	72 Hour	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ44509
Phoenix ID: BZ44511

Project ID: FORMER ANOCOIL
Client ID: 1358171120-03 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				11/22/17	P/I	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				11/22/17	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.24	0.07	mg/L	1	11/27/17	PS	CTETPH 8015D
Identification	**		mg/L	1	11/27/17	PS	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	83		%	1	11/27/17	PS	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trimethylbenzene	1.6	1.0	ug/L	1	11/21/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Benzene	2.1	1.0	ug/L	1	11/21/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Isopropylbenzene	5.0	1.0	ug/L	1	11/21/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Naphthalene	34	5.0	ug/L	1	11/21/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
o-Xylene	5.4	1.0	ug/L	1	11/21/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Total Xylenes	5.4	1.0	ug/L	1	11/21/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/21/17	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	11/21/17	HM	70 - 130 %
% Dibromofluoromethane	104		%	1	11/21/17	HM	70 - 130 %
% Toluene-d8	96		%	1	11/21/17	HM	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	0.17	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Acenaphthene	2.1	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Acenaphthylene	0.28	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Anthracene	0.28	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.21	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.22	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.29	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.14	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.20	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Chrysene	0.23	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.01	ug/L	1	11/27/17	DD	SW8270D (SIM)
Fluoranthene	0.48	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Fluorene	0.17	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.14	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Naphthalene	6.9	0.10	ug/L	1	11/27/17	DD	SW8270D (SIM)
Phenanthrene	0.33	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
Pyrene	0.51	0.05	ug/L	1	11/27/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	58		%	1	11/27/17	DD	30 - 130 %
% Nitrobenzene-d5	68		%	1	11/27/17	DD	30 - 130 %
% Terphenyl-d14	62		%	1	11/27/17	DD	30 - 130 %

Project ID: FORMER ANOCOIL MW-07 Phoenix I.D.: BZ44511
Client ID: 1358171120-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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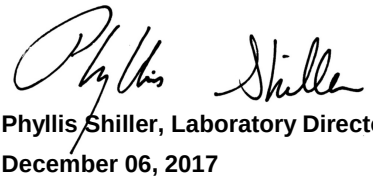

Phyllis Shiller, Laboratory Director
December 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

December 06, 2017

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		11/20/17	10:41
Location Code:	F&O	Received by:	LB	11/20/17	13:42
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ44509
Phoenix ID: BZ44512

Project ID: FORMER ANOCOIL
Client ID: 1358171120-04 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				11/21/17	P/Q	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				11/21/17	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.077	mg/L	1	11/22/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	11/22/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	11/22/17	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Benzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	11/21/17	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	11/21/17	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260

Ver 2

Project ID: FORMER ANOCOIL
Client ID: 1358171120-04

MW-08

Phoenix I.D.: BZ44512

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Styrene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Toluene	ND	1.0	ug/L	1	11/21/17	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	11/21/17	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/21/17	HM	70 - 130 %
% Bromofluorobenzene	97		%	1	11/21/17	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	11/21/17	HM	70 - 130 %
% Toluene-d8	95		%	1	11/21/17	HM	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Acenaphthene	0.33	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Anthracene	0.07	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.08	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.13	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.09	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Chrysene	0.08	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.02	0.01	ug/L	1	11/22/17	DD	SW8270D (SIM)
Fluoranthene	0.26	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Fluorene	0.26	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Naphthalene	0.13	0.11	ug/L	1	11/22/17	DD	SW8270D (SIM)
Phenanthrene	0.12	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
Pyrene	0.09	0.06	ug/L	1	11/22/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	11/22/17	DD	30 - 130 %
% Nitrobenzene-d5	47		%	1	11/22/17	DD	30 - 130 %
% Terphenyl-d14	60		%	1	11/22/17	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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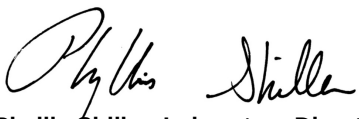

Phyllis Shiller, Laboratory Director
December 06, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

December 06, 2017

QA/QC Data

SDG I.D.: GBZ44509

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 410573 (ug/L), QC Sample No: BZ44281 (BZ44509)										
Volatiles - Water										
1,2,3-Trichlorobenzene	ND	1.0	105	107	1.9				70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	107	107	0.0				70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	95	97	2.1				70 - 130	30
1,2-Dichlorobenzene	ND	1.0	99	100	1.0				70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	97	97	0.0				70 - 130	30
1,3-Dichlorobenzene	ND	1.0	100	101	1.0				70 - 130	30
1,4-Dichlorobenzene	ND	1.0	97	98	1.0				70 - 130	30
Benzene	ND	0.70	90	88	2.2				70 - 130	30
Chlorobenzene	ND	1.0	99	96	3.1				70 - 130	30
Ethylbenzene	ND	1.0	98	97	1.0				70 - 130	30
Isopropylbenzene	ND	1.0	100	98	2.0				70 - 130	30
m&p-Xylene	ND	1.0	98	96	2.1				70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	98	98	0.0				70 - 130	30
Naphthalene	ND	1.0	101	105	3.9				70 - 130	30
n-Butylbenzene	ND	1.0	99	99	0.0				70 - 130	30
n-Propylbenzene	ND	1.0	98	98	0.0				70 - 130	30
o-Xylene	ND	1.0	98	95	3.1				70 - 130	30
p-Isopropyltoluene	ND	1.0	99	98	1.0				70 - 130	30
sec-Butylbenzene	ND	1.0	101	101	0.0				70 - 130	30
Styrene	ND	1.0	97	95	2.1				70 - 130	30
tert-Butylbenzene	ND	1.0	99	98	1.0				70 - 130	30
Toluene	ND	1.0	92	90	2.2				70 - 130	30
% 1,2-dichlorobenzene-d4	99	%	102	104	1.9				70 - 130	30
% Bromofluorobenzene	96	%	101	100	1.0				70 - 130	30
% Dibromofluoromethane	102	%	104	107	2.8				70 - 130	30
% Toluene-d8	96	%	100	100	0.0				70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 410498 (mg/L), QC Sample No: BZ44510 (BZ44510, BZ44512)										
TPH by GC (Extractable Products) - Water										
Ext. Petroleum H.C. (C9-C36)	ND	0.10	98	102	4.0	97	95	2.1	60 - 120	30
% n-Pentacosane	72	%	84	91	8.0	83	82	1.2	50 - 150	20

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 410614 (ug/L), QC Sample No: BZ44510 (BZ44510, BZ44511, BZ44512)										
Volatiles - Water										
1,2,3-Trichlorobenzene	ND	1.0	109	105	3.7	95	107	11.9	70 - 130	30

QA/QC Data

SDG I.D.: GBZ44509

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
1,2,4-Trichlorobenzene	ND	5.0	112	106	5.5	103	112	8.4	70 - 130	30
1,2,4-Trimethylbenzene	ND	1.0	98	96	2.1	99	104	4.9	70 - 130	30
1,2-Dichlorobenzene	ND	1.0	103	100	3.0	103	107	3.8	70 - 130	30
1,3,5-Trimethylbenzene	ND	1.0	100	98	2.0	102	105	2.9	70 - 130	30
1,3-Dichlorobenzene	ND	1.0	105	101	3.9	105	108	2.8	70 - 130	30
1,4-Dichlorobenzene	ND	1.0	99	99	0.0	101	106	4.8	70 - 130	30
Benzene	ND	0.70	89	88	1.1	95	102	7.1	70 - 130	30
Chlorobenzene	ND	1.0	100	98	2.0	104	107	2.8	70 - 130	30
Ethylbenzene	ND	1.0	99	96	3.1	105	107	1.9	70 - 130	30
Isopropylbenzene	ND	1.0	101	101	0.0	104	108	3.8	70 - 130	30
m&p-Xylene	ND	1.0	99	95	4.1	102	106	3.8	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	96	97	1.0	97	99	2.0	70 - 130	30
Naphthalene	ND	1.0	103	99	4.0	89	97	8.6	70 - 130	30
n-Butylbenzene	ND	1.0	105	101	3.9	103	110	6.6	70 - 130	30
n-Propylbenzene	ND	1.0	101	102	1.0	103	107	3.8	70 - 130	30
o-Xylene	ND	1.0	98	88	10.8	103	107	3.8	70 - 130	30
p-Isopropyltoluene	ND	1.0	104	100	3.9	104	110	5.6	70 - 130	30
sec-Butylbenzene	ND	1.0	108	102	5.7	107	114	6.3	70 - 130	30
Styrene	ND	1.0	97	93	4.2	101	106	4.8	70 - 130	30
tert-Butylbenzene	ND	1.0	103	99	4.0	105	107	1.9	70 - 130	30
Toluene	ND	1.0	92	90	2.2	97	102	5.0	70 - 130	30
% 1,2-dichlorobenzene-d4	101	%	103	104	1.0	102	103	1.0	70 - 130	30
% Bromofluorobenzene	95	%	101	98	3.0	98	100	2.0	70 - 130	30
% Dibromofluoromethane	103	%	106	101	4.8	104	102	1.9	70 - 130	30
% Toluene-d8	98	%	98	97	1.0	98	102	4.0	70 - 130	30

Comment:

A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 410497 (ug/L), QC Sample No: BZ44510 (BZ44510, BZ44512)

Semivolatiles by SIM - Water

2-Methylnaphthalene	ND	0.05	87	88	1.1	72	78	8.0	30 - 130	20
Acenaphthene	ND	0.05	77	70	9.5	60	66	9.5	30 - 130	20
Acenaphthylene	ND	0.04	86	79	8.5	67	75	11.3	30 - 130	20
Anthracene	ND	0.02	82	75	8.9	70	75	6.9	30 - 130	20
Benz(a)anthracene	ND	0.02	97	87	10.9	82	87	5.9	30 - 130	20
Benzo(a)pyrene	ND	0.02	90	81	10.5	74	80	7.8	30 - 130	20
Benzo(b)fluoranthene	ND	0.02	92	83	10.3	86	93	7.8	30 - 130	20
Benzo(ghi)perylene	ND	0.02	94	83	12.4	62	63	1.6	30 - 130	20
Benzo(k)fluoranthene	ND	0.02	92	79	15.2	82	90	9.3	30 - 130	20
Chrysene	ND	0.02	84	76	10.0	71	75	5.5	30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	106	94	12.0	72	72	0.0	30 - 130	20
Fluoranthene	ND	0.04	89	81	9.4	78	85	8.6	30 - 130	20
Fluorene	ND	0.05	78	70	10.8	62	66	6.3	30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	102	89	13.6	69	70	1.4	30 - 130	20
Naphthalene	ND	0.05	59	59	0.0	48	53	9.9	30 - 130	20
Phenanthrene	ND	0.05	74	67	9.9	62	67	7.8	30 - 130	20
Pyrene	ND	0.02	89	81	9.4	79	87	9.6	30 - 130	20
% 2-Fluorobiphenyl	69	%	69	64	7.5	52	58	10.9	30 - 130	20
% Nitrobenzene-d5	68	%	49	49	0.0	38	42	10.0	30 - 130	20
% Terphenyl-d14	90	%	90	83	8.1	77	83	7.5	30 - 130	20

QA/QC Data

SDG I.D.: GBZ44509

Parameter	Blank	Blk RL	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 410680 (mg/L), QC Sample No: BZ44511 (BZ44511)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	75	76	1.3				60 - 120	30	
% n-Pentacosane	71	%	75	75	0.0				50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 410679 (ug/L), QC Sample No: BZ44511 (BZ44511)											
Semivolatiles by SIM - Water											
2-Methylnaphthalene	ND	0.05	58	61	5.0				30 - 130	20	
Acenaphthene	ND	0.05	80	76	5.1				30 - 130	20	
Acenaphthylene	ND	0.04	81	19	124.0				30 - 130	20	l,r
Anthracene	ND	0.02	92	88	4.4				30 - 130	20	
Benz(a)anthracene	ND	0.02	89	86	3.4				30 - 130	20	
Benzo(a)pyrene	ND	0.02	97	74	26.9				30 - 130	20	r
Benzo(b)fluoranthene	ND	0.02	103	108	4.7				30 - 130	20	
Benzo(ghi)perylene	ND	0.02	84	73	14.0				30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	99	98	1.0				30 - 130	20	
Chrysene	ND	0.02	80	79	1.3				30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	95	93	2.1				30 - 130	20	
Fluoranthene	ND	0.04	87	89	2.3				30 - 130	20	
Fluorene	ND	0.05	81	84	3.6				30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	91	84	8.0				30 - 130	20	
Naphthalene	ND	0.05	50	58	14.8				30 - 130	20	
Phenanthrene	ND	0.05	81	79	2.5				30 - 130	20	
Pyrene	ND	0.02	89	83	7.0				30 - 130	20	
% 2-Fluorobiphenyl	59	%	69	74	7.0				30 - 130	20	
% Nitrobenzene-d5	66	%	53	55	3.7				30 - 130	20	
% Terphenyl-d14	81	%	82	91	10.4				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%)											

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
December 06, 2017

Wednesday, December 06, 2017

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBZ44509 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ44511	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.33	0.05	0.077	0.077	ug/L
BZ44512	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.12	0.06	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:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BZ44509-BZ44512 ***Sampling Date(s):*** 11/20/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Section: SVOASIM Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?**	☑ Yes ☐ No
	b) Were these reporting limits met?	☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Wednesday, December 06, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

December 06, 2017

SDG I.D.: GBZ44509

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL1 11/27/17-1 Jeff Bucko, Chemist 11/27/17

BZ44511

The initial calibration (ETPHN03I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 11/22/17-1 Jeff Bucko, Chemist 11/22/17

BZ44510, BZ44512

The initial calibration (ETPHO23I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Batch Specific):

Batch 410680 (BZ44511)

BZ44511

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QC (Site Specific):

Batch 410498 (BZ44510)

BZ44510, BZ44512

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOASIM Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
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RCP Certification Report

December 06, 2017

SDG I.D.: GBZ44509

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 410679 (Samples: BZ44511): -----

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. (Acenaphthylene)

The LCS/LCSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Acenaphthylene, Benzo(a)pyrene)

Instrument:

CHEM04 11/27/17-1 Damien Drobinski, Chemist 11/27/17

BZ44511

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_1113):
94% of target compounds met criteria.
The following compounds had %RSDs >20%: Chrysene 23% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/1127_02-SIM_1113):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM07 11/22/17-1 Damien Drobinski, Chemist 11/22/17

BZ44510, BZ44512

Initial Calibration Verification (CHEM07/BNSIM_1025):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM07/1122_02-BNSIM_1025):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

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RCP Certification Report

December 06, 2017

SDG I.D.: GBZ44509

SVOASIM Narration

QC (Batch Specific):

Batch 410679 (BZ44511)

BZ44511

All LCS recoveries were within 30 - 130 with the following exceptions: None.
All LCSD recoveries were within 30 - 130 with the following exceptions: Acenaphthylene(19%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: Acenaphthylene(124.0%), Benzo(a)pyrene(26.9%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QC (Site Specific):

Batch 410497 (BZ44510)

BZ44510, BZ44512

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: None.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM16 11/20/17-2 Harry Mullin, Chemist 11/20/17

BZ44509

Initial Calibration Verification (CHEM16/VT-H1103):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/1120H27-VT-H1103):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM16 11/21/17-1 Harry Mullin, Chemist 11/21/17

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NY # 11301

RCP Certification Report

December 06, 2017

SDG I.D.: GBZ44509

VOA Narration

BZ44510, BZ44511, BZ44512

Initial Calibration Verification (CHEM16/VT-H1103):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/1121H02-VT-H1103):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Batch Specific):

Batch 410573 (BZ44281)

BZ44509

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QC (Site Specific):

Batch 410614 (BZ44510)

BZ44510, BZ44511, BZ44512

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A LCS and LCS Duplicate were performed instead of a matrix spike and matrix spike duplicate.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples in this delivery group were received at 5.2°C.
(Note acceptance criteria is above freezing up to 6°C)

5.2 OWC
1P

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X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 38654

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard 5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
FORMER ANOCOIL	ROCKVILLE, CT	2001454.R20	PHOENIX

REPORT TO: KEVIN VANDERVEER, T+O
INVOICE TO: ↓
P.O. NO.:

Sampler's Signature: Date: 11/29/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other TB

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: VOCs, ETPH, PAHs	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is ☐ HCl	Glass Amber (1000 ml) ☐ As is ☐ H_2SO_4	Plastic - As is, ☐ 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01		135817120-01	X	11/29/17	0845	X				4	4	5	09			2		TB
02		-02	MW		0942	X X X				4	4	5	10			9	9	MS/MSD
03		-03			0950	X X X				4	4	5	11			3	2	*limited volume
04		-04			1041	X X X				4	4	5	12			3	3	
* 05		-05			1136	X X X				4	4	5	13			3	3	* Free Product in sample
* 06		-06	↓	↓	1140	X X X				4	4	5	14			3	3	** ↓ no charge

Transfer Number	Relinquished By	Accepted By	Date	Time
1			11/20/17	13:42
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC
Additional Comments: *on hold per Deanna 11/20 (MJP)

PHOENIX
Environmental Laboratories, Inc.

Wednesday, March 14, 2018

Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: FORMER ANOCOIL
Sample ID#s: BZ94100 - BZ94105

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B
NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
UT Lab Registration #CT00007
VT Lab Registration #VT11301

REVIEWED DMS
By pbibeau at 7:23 am, Mar 15, 2018

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 14, 2018

SDG I.D.: GBZ94100

Version 2:
SVOA analysis:
The PAHs were above calibration range for BZ94104 requiring analysis by 8270 full scan.
The initial report had a method reference of 8270SIM.
The method reference and SVOA narrative have been corrected.

Version 3:
RLs corrected for BZ94104.

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 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	9:00
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94100

Project ID: FORMER ANOCOIL
Client ID: 1306180223-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	02/23/18	HM	70 - 130 %

Ver 3

Project ID: FORMER ANOCOIL
Phoenix I.D.: BZ94100

Client ID: 1306180223-01 Trip Blank

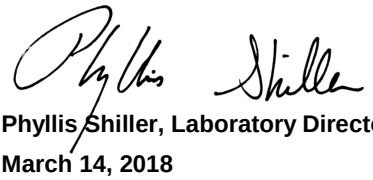
Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Dibromofluoromethane	102		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	97		%	1	02/23/18	HM	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	9:29
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94101

Project ID: FORMER ANOCOIL
Client ID: 1306180223-02 MW-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				02/26/18	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				02/27/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.078	mg/L	1	03/01/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	73		%	1	03/01/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306180223-02 MW-08

Phoenix I.D.: BZ94101

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	02/23/18	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	100		%	1	02/23/18	HM	70 - 130 %
Semivolatiles by SIM							
2-Methylnaphthalene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Anthracene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Chrysene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluorene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	02/28/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
Pyrene	ND	0.06	ug/L	1	02/28/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	61		%	1	02/28/18	DD	30 - 130 %
% Nitrobenzene-d5	65		%	1	02/28/18	DD	30 - 130 %
% Terphenyl-d14	79		%	1	02/28/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	9:56
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94102

Project ID: FORMER ANOCOIL
Client ID: 1306180223-03 MW-07

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				02/26/18	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				02/27/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.075	mg/L	1	03/01/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	57		%	1	03/01/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	1.3	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	1.5	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260

Ver 3

Project ID: FORMER ANOCOIL
Client ID: 1306180223-03 MW-07

Phoenix I.D.: BZ94102

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	1.5	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	96		%	1	02/23/18	HM	70 - 130 %
% Dibromofluoromethane	101		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	99		%	1	02/23/18	HM	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthene	1.4	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthylene	0.20	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Anthracene	0.26	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benz(a)anthracene	0.05	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluoranthene	0.15	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluorene	0.15	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Naphthalene	0.73	0.10	ug/L	1	02/28/18	DD	SW8270D (SIM)
Phenanthrene	0.22	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Pyrene	0.24	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	56		%	1	02/28/18	DD	30 - 130 %
% Nitrobenzene-d5	57		%	1	02/28/18	DD	30 - 130 %
% Terphenyl-d14	64		%	1	02/28/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	10:41
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94103

Project ID: FORMER ANOCOIL
Client ID: 1306180223-04 MW-14

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				02/26/18	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				02/27/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.074	mg/L	1	03/01/18	JRB	CTETPH 8015D
Identification	ND		mg/L	1	03/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	77		%	1	03/01/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	ND	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306180223-04 MW-14

Phoenix I.D.: BZ94103

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	ND	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	99		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	02/23/18	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	99		%	1	02/23/18	HM	70 - 130 %
Client MS/MSD	Completed				02/28/18		

Semivolatiles by SIM

2-Methylnaphthalene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Anthracene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluoranthene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluorene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Naphthalene	ND	0.11	ug/L	1	02/28/18	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Pyrene	ND	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	57		%	1	02/28/18	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	02/28/18	DD	30 - 130 %
% Terphenyl-d14	80		%	1	02/28/18	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Ver 3

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 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	12:52
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94104

Project ID: FORMER ANOCOIL
Client ID: 1306180223-05 MW-13

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				02/26/18	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				02/27/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.54	0.074	mg/L	1	03/01/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	03/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	03/01/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	2.7	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	3.4	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	2.6	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	3.6	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	43	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	2.8	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	1.3	1.0	ug/L	1	02/23/18	HM	SW8260

Project ID: FORMER ANOCOIL
Client ID: 1306180223-05 MW-13

Phoenix I.D.: BZ94104

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	6.4	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	95		%	1	02/23/18	HM	70 - 130 %
% Dibromofluoromethane	103		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	100		%	1	02/23/18	HM	70 - 130 %
Polynuclear Aromatic HC							
2-Methylnaphthalene	54	3.6	ug/L	1	03/01/18	PS	SW8270D
Acenaphthene	65	3.6	ug/L	1	03/01/18	PS	SW8270D
Acenaphthylene	18	3.6	ug/L	1	03/01/18	PS	SW8270D
Anthracene	31	3.6	ug/L	1	03/01/18	PS	SW8270D
Benz(a)anthracene	16	3.6	ug/L	1	03/01/18	PS	SW8270D
Benzo(a)pyrene	7.4	3.6	ug/L	1	03/01/18	PS	SW8270D
Benzo(b)fluoranthene	3.0	1.7	ug/L	1	03/01/18	PS	SW8270D
Benzo(ghi)perylene	2.9	1.7	ug/L	1	03/01/18	PS	SW8270D
Benzo(k)fluoranthene	5.1	3.6	ug/L	1	03/01/18	PS	SW8270D
Chrysene	15	3.6	ug/L	1	03/01/18	PS	SW8270D
Dibenz(a,h)anthracene	1.7	1.0	ug/L	1	03/01/18	PS	SW8270D
Fluoranthene	28	3.6	ug/L	1	03/01/18	PS	SW8270D
Fluorene	32	3.6	ug/L	1	03/01/18	PS	SW8270D
Indeno(1,2,3-cd)pyrene	3.0	1.7	ug/L	1	03/01/18	PS	SW8270D
Naphthalene	32	3.6	ug/L	1	03/01/18	PS	SW8270D
Phenanthrene	150	36	ug/L	10	03/02/18	PS	SW8270D
Pyrene	38	3.6	ug/L	1	03/01/18	PS	SW8270D
QA/QC Surrogates							
% 2-Fluorobiphenyl	87		%	1	03/01/18	PS	30 - 130 %
% Nitrobenzene-d5	61		%	1	03/01/18	PS	30 - 130 %
% Terphenyl-d14	93		%	1	03/01/18	PS	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1306180223-05

MW-13

Phoenix I.D.: BZ94104

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C9 to C24. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

If there are any questions regarding this data, please call Phoenix Client Services.
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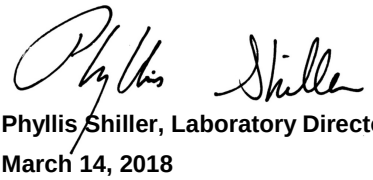

Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

March 14, 2018

FOR: Attn: Mr. Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		02/23/18	13:14
Location Code:	F&O	Received by:	LB	02/23/18	15:05
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454.R20				

Laboratory Data

SDG ID: GBZ94100
Phoenix ID: BZ94105

Project ID: FORMER ANOCOIL
Client ID: 1306180223-06 MW-13 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Extraction of CT ETPH	Completed				02/26/18	P/D	SW3510C/SW3520C
Semi-Volatile Extraction	Completed				02/27/18	P/D	SW3520C
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	0.79	0.077	mg/L	1	03/01/18	JRB	CTETPH 8015D
Identification	**		mg/L	1	03/01/18	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	03/01/18	JRB	50 - 150 %
Aromatic Volatiles							
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,2,4-Trimethylbenzene	7.9	1.0	ug/L	1	02/23/18	HM	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,3,5-Trimethylbenzene	1.7	1.0	ug/L	1	02/23/18	HM	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Benzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Chlorobenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Ethylbenzene	18	1.0	ug/L	1	02/23/18	HM	SW8260
Isopropylbenzene	8.5	1.0	ug/L	1	02/23/18	HM	SW8260
m&p-Xylene	9.8	2.0	ug/L	1	02/23/18	HM	SW8260
Methyl t-butyl ether (MTBE)	ND	2.0	ug/L	1	02/23/18	HM	SW8260
Naphthalene	120	5.0	ug/L	1	02/23/18	HM	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
o-Xylene	11	1.0	ug/L	1	02/23/18	HM	SW8260
p-Isopropyltoluene	3.0	1.0	ug/L	1	02/23/18	HM	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
sec-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Styrene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	02/23/18	HM	SW8260
Toluene	1.7	1.0	ug/L	1	02/23/18	HM	SW8260
Total Xylenes	20.8	1.0	ug/L	1	02/23/18	HM	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	101		%	1	02/23/18	HM	70 - 130 %
% Bromofluorobenzene	98		%	1	02/23/18	HM	70 - 130 %
% Dibromofluoromethane	99		%	1	02/23/18	HM	70 - 130 %
% Toluene-d8	98		%	1	02/23/18	HM	70 - 130 %

Semivolatiles by SIM

2-Methylnaphthalene	31	0.05	ug/L	1	03/01/18	DD	SW8270D (SIM)
Acenaphthene	26	0.05	ug/L	1	03/01/18	DD	SW8270D (SIM)
Acenaphthylene	2.5	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Anthracene	2.2	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benz(a)anthracene	0.82	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(a)pyrene	0.58	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.23	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(ghi)perylene	0.24	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.41	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Chrysene	0.76	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.13	0.01	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluoranthene	1.4	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Fluorene	4.7	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.24	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
Naphthalene	82	0.10	ug/L	1	03/01/18	DD	SW8270D (SIM)
Phenanthrene	16	0.05	ug/L	1	03/01/18	DD	SW8270D (SIM)
Pyrene	2.2	0.05	ug/L	1	02/28/18	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2-Fluorobiphenyl	66		%	1	02/28/18	DD	30 - 130 %
% Nitrobenzene-d5	69		%	1	02/28/18	DD	30 - 130 %
% Terphenyl-d14	74		%	1	02/28/18	DD	30 - 130 %

Project ID: FORMER ANOCOIL
Client ID: 1306180223-06 MW-13 Field Duplicate

Phoenix I.D.: BZ94105

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

DUPLICATE INCLUDED

TPH Comment:
**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.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
March 14, 2018
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

March 14, 2018

QA/QC Data

SDG I.D.: GBZ94100

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 421065 (mg/L), QC Sample No: BZ94103 (BZ94101, BZ94102, BZ94103, BZ94104, BZ94105)											
TPH by GC (Extractable Products) - Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.10	83	85	2.4	68	69	1.5	60 - 120	30	
% n-Pentacosane	87	%	85	87	2.3	83	80	3.7	50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 421025 (ug/L), QC Sample No: BZ94103 (BZ94100, BZ94101, BZ94102, BZ94103, BZ94104, BZ94105)											
Volatiles - Water											
1,2,3-Trichlorobenzene	ND	1.0	111	118	6.1	111	109	1.8	70 - 130	30	
1,2,4-Trichlorobenzene	ND	5.0	110	111	0.9	109	110	0.9	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	103	106	2.9	110	109	0.9	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	104	105	1.0	109	107	1.9	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	103	104	1.0	111	108	2.7	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	104	106	1.9	111	107	3.7	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	102	104	1.9	109	106	2.8	70 - 130	30	
Benzene	ND	0.70	105	102	2.9	114	110	3.6	70 - 130	30	
Chlorobenzene	ND	1.0	104	103	1.0	112	106	5.5	70 - 130	30	
Ethylbenzene	ND	1.0	105	103	1.9	115	109	5.4	70 - 130	30	
Isopropylbenzene	ND	1.0	102	103	1.0	110	108	1.8	70 - 130	30	
m&p-Xylene	ND	1.0	103	103	0.0	112	108	3.6	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	95	97	2.1	101	119	16.4	70 - 130	30	
Naphthalene	ND	1.0	114	121	6.0	115	116	0.9	70 - 130	30	
n-Butylbenzene	ND	1.0	105	107	1.9	112	112	0.0	70 - 130	30	
n-Propylbenzene	ND	1.0	101	102	1.0	110	108	1.8	70 - 130	30	
o-Xylene	ND	1.0	101	101	0.0	111	106	4.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	105	105	0.0	111	110	0.9	70 - 130	30	
sec-Butylbenzene	ND	1.0	107	108	0.9	115	115	0.0	70 - 130	30	
Styrene	ND	1.0	105	105	0.0	113	106	6.4	70 - 130	30	
tert-Butylbenzene	ND	1.0	102	102	0.0	109	107	1.9	70 - 130	30	
Toluene	ND	1.0	105	104	1.0	115	110	4.4	70 - 130	30	
% 1,2-dichlorobenzene-d4	100	%	99	102	3.0	99	100	1.0	70 - 130	30	
% Bromofluorobenzene	97	%	99	100	1.0	101	99	2.0	70 - 130	30	
% Dibromofluoromethane	101	%	98	101	3.0	102	101	1.0	70 - 130	30	
% Toluene-d8	99	%	101	100	1.0	100	102	2.0	70 - 130	30	
Comment:											
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.											
QA/QC Batch 421200 (ug/L), QC Sample No: BZ94103 (BZ94101, BZ94102, BZ94103, BZ94104, BZ94105)											
Semivolatiles by SIM - Water											
2-Methylnaphthalene	ND	0.05	63	65	3.1	49	61	21.8	30 - 130	20	r
Acenaphthene	ND	0.05	64	66	3.1	54	62	13.8	30 - 130	20	
Acenaphthylene	ND	0.04	66	68	3.0	56	65	14.9	30 - 130	20	

QA/QC Data

SDG I.D.: GBZ94100

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Anthracene	ND	0.02	67	70	4.4	59	64	8.1	30 - 130	20	
Benz(a)anthracene	ND	0.02	66	68	3.0	63	66	4.7	30 - 130	20	
Benzo(a)pyrene	ND	0.02	69	72	4.3	60	63	4.9	30 - 130	20	
Benzo(b)fluoranthene	ND	0.02	74	77	4.0	69	74	7.0	30 - 130	20	
Benzo(ghi)perylene	ND	0.02	61	62	1.6	53	55	3.7	30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	69	72	4.3	61	61	0.0	30 - 130	20	
Chrysene	ND	0.02	66	68	3.0	60	64	6.5	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	76	77	1.3	68	71	4.3	30 - 130	20	
Fluoranthene	ND	0.04	68	71	4.3	67	74	9.9	30 - 130	20	
Fluorene	ND	0.05	63	64	1.6	55	61	10.3	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	72	72	0.0	63	66	4.7	30 - 130	20	
Naphthalene	ND	0.05	53	55	3.7	41	53	25.5	30 - 130	20	r
Phenanthrene	ND	0.05	61	64	4.8	56	60	6.9	30 - 130	20	
Pyrene	ND	0.02	68	71	4.3	66	73	10.1	30 - 130	20	
% 2-Fluorobiphenyl	60	%	61	63	3.2	46	56	19.6	30 - 130	20	
% Nitrobenzene-d5	69	%	52	53	1.9	41	50	19.8	30 - 130	20	
% Terphenyl-d14	76	%	82	84	2.4	78	88	12.0	30 - 130	20	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

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 14, 2018

Wednesday, March 14, 2018

Criteria: CT: RV, SWP

State: CT

Sample Criteria Exceedances Report

GBZ94100 - FO

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BZ94102	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.22	0.05	0.077	0.077	ug/L
BZ94104	$8100WMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	18	3.6	0.3	0.3	ug/L
BZ94104	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	150	36	14	14	ug/L
BZ94104	$8100WMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	150	36	0.077	0.077	ug/L
BZ94104	$8100WMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	16	3.6	0.3	0.3	ug/L
BZ94104	$8100WMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	15	3.6	0.54	0.54	ug/L
BZ94104	$8100WMR	Benzo(b)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	3.0	1.7	0.3	0.3	ug/L
BZ94104	$8100WMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	5.1	3.6	0.3	0.3	ug/L
BZ94104	$8100WMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	7.4	3.6	0.3	0.3	ug/L
BZ94104	$8100WMR	Indeno(1,2,3-cd)pyrene	CT / RSR SWPC (ug/l) / APS Organics	3.0	1.7	0.54	0.54	ug/L
BZ94104	$8100WMR	Dibenz(a,h)anthracene	CT / RSR SWPC (ug/l) / APS Organics	1.7	1.0	0.3	0.3	ug/L
BZ94104	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.54	0.074	0.25	0.25	mg/L
BZ94105	$8100CTSIMR	Chrysene	CT / RSR SWPC (ug/l) / APS Organics	0.76	0.05	0.54	0.54	ug/L
BZ94105	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / APS Organics	16	0.05	14	14	ug/L
BZ94105	$8100CTSIMR	Benzo(k)fluoranthene	CT / RSR SWPC (ug/l) / Semivolatiles	0.41	0.05	0.3	0.3	ug/L
BZ94105	$8100CTSIMR	Acenaphthylene	CT / RSR SWPC (ug/l) / Semivolatiles	2.5	0.05	0.3	0.3	ug/L
BZ94105	$8100CTSIMR	Benz(a)anthracene	CT / RSR SWPC (ug/l) / Semivolatiles	0.82	0.05	0.3	0.3	ug/L
BZ94105	$8100CTSIMR	Benzo(a)pyrene	CT / RSR SWPC (ug/l) / Semivolatiles	0.58	0.05	0.3	0.3	ug/L
BZ94105	$8100CTSIMR	Phenanthrene	CT / RSR SWPC (ug/l) / Semivolatiles	16	0.05	0.077	0.077	ug/L
BZ94105	$ETPH_WMR	Ext. Petroleum H.C. (C9-C36)	CT / RSR SWPC (ug/l) / APS Organics	0.79	0.077	0.25	0.25	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:*** Fuss & O'Neill, Inc.

Project Location: FORMER ANOCOIL ***Project Number:***

Laboratory Sample ID(s): BZ94100-BZ94105 ***Sampling Date(s):*** 2/23/2018

List RCP Methods Used (e.g., 8260, 8270, et cetera) 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: SVOA Narration, SVOASIM Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☑ Yes ☐ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Phyllis Shiller **Position:** Laboratory Director

Printed Name: Phyllis Shiller **Date:** Wednesday, March 14, 2018

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 14, 2018

SDG I.D.: GBZ94100

SDG Comments

8260 Volatile Organics:
The client requested a short list for 8260 RCP Volatiles. Only the volatile aromatic constituents are reported as requested on the chain-of-custody.

8270 Semi-volatile Organics:
Only the PAH constituents are reported as requested on the chain-of-custody. In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM).

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-XL2 02/28/18-1 Jeff Bucko, Chemist 02/28/18

BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

The initial calibration (ETPH222I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL2 02/28/18-2 Jeff Bucko, Chemist 02/28/18

BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

The initial calibration (ETPH228I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 421065 (BZ94103)

BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 421200 (Samples: BZ94104): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be a slight variability in the reported result. (2-Methylnaphthalene, Naphthalene)

Instrument:

CHEM05 03/01/18-1 Damien Drobinski, Chemist 03/01/18

BZ94104, BZ94105

Initial Calibration Verification (CHEM05/SPLIT_0206):
95% of target compounds met criteria.

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RCP Certification Report

March 14, 2018

SDG I.D.: GBZ94100

SVOA Narration

The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0301_02-SPLIT_0206):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM27 03/02/18-1 Damien Drobinski, Chemist 03/02/18

BZ94104

Initial Calibration Verification (CHEM27/SPLIT_0221):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM27/0302_02-SPLIT_0221):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 421200 (BZ94103)

BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: 2-Methylnaphthalene(21.8%), Naphthalene(25.5%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

March 14, 2018

SDG I.D.: GBZ94100

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 421200 (Samples: BZ94101, BZ94102, BZ94103, BZ94105): -----

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be a slight variability in the reported result. (2-Methylnaphthalene, Naphthalene)

Instrument:

CHEM04 02/28/18-1 Damien Drobinski, Chemist 02/28/18

BZ94103

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/BNSIM_0118):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0228_02-BNSIM_0118):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM25 02/28/18-1 Damien Drobinski, Chemist 02/28/18

BZ94101, BZ94102, BZ94105

Initial Calibration Verification (CHEM25/SIM_0222):
92% of target compounds met criteria.
The following compounds had %RSDs >20%: Benzo(ghi)perylene 23% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM25/0228_02-SIM_0222):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 421200 (BZ94103)

BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

RCP Certification Report

March 14, 2018

SDG I.D.: GBZ94100

SVOASIM Narration

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.
All MS recoveries were within 30 - 130 with the following exceptions: None.
All MSD recoveries were within 30 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 20% with the following exceptions: 2-Methylnaphthalene(21.8%), Naphthalene(25.5%)
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

CHEM16 02/23/18-1 Harry Mullin, Chemist 02/23/18

BZ94100, BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

Initial Calibration Verification (CHEM16/VT-H0223):
100% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM16/0223H09-VT-H0223):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 421025 (BZ94103)

BZ94100, BZ94101, BZ94102, BZ94103, BZ94104, BZ94105

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: None.
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

The samples were received at 3.0C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

FUSS & O'NEILL
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X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

3.0°W/C + Ice

CHAIN-OF-CUSTODY RECORD 38083

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* X Standard (____ days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Former Anocoil	Rockville, CT	20014454.R20	Phoenix

REPORT TO: Kevin van der Veer, FTO
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 2/23/18

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Item No.	Transfer Check 1	2	3	4	Sample Number	Source Code	Date Sampled	Time Sampled	Analysis Request: AVOCs	ETPH	PAHs	Containers: Soil VOA Vial, ☐ methanol	Soil VOA Vial, ☐ water	Glass Soil Container ( ) oz	Other:	Other:	Water VOA Vial, ☐ As is X HCl	Glass Amber (1000) mL X As is ☐ H_2SO_4	Plastic - As is; ☐ 250 ml ☐ 500 ☐ 1000 ml	Plastic - H_2SO_4, ☐ 250 ml ☐ 500 ml	Plastic - HNO_3, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Plastic - NaOH, 250 ml	Comments
01					1306180223-01	X	2/23/18	0900	X								2						TB
02					-02	MW		0929		X	X						3	3					
03					-03			0956									↓	↓					
04					-04			1041									9	9					MS/MSD
05					-05			1252									3	3					
06					-06			1314									↓	↓					No charge

Transfer Number	Relinquished By	Accepted By	Date	Time
1	[signature]	Paradise	2/23/18	1505
2				
3				
4				

Charge Exceptions: ☐ CT Tax Exempt X QA/QC ☐ Other _____
1 Duplicates 1 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: X RCP Deliverables ☐ MCP CAM Cert.
SWPC, Res VC
Additional Comments:

FUSS & O'NEILL

Appendix E

95 Percent UCL Documentation

Table 1
Arsenic Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Arsenic (mg/kg)
MW-01	6 - 7	6
MW-02	11 - 13	4.9
MW-04	5 - 7	16.9
	8 - 9[W]	45.6
MW-05	1 - 5	1.3
MW-07	0 - 4	2.4
	12.5 - 15	6.5
MW-08	0.5 - 4	2.2
MW-09	5 - 8	1.2
MW-10	3 - 5	3
MW-11	0 - 1.5	1.8
MW-14	0 - 2	3.1
	10 - 12	8.3
SB-04	3 - 5	3.4
SB-06	0.7 - 1	<0.8
SB-09	0.5 - 4.5	1.9
SB-11	9 - 10	4
SB-13	7.5 - 10	3.9
SB-14	0 - 2	2
SB-14A	5 - 8	3.8
SB-21	0.5 - 2.5	2.8
SB-22	1 - 4	2.7
SB-23	1 - 4	4.8
SB-25	2 - 5[D]	2.3
SB-28	2.5 - 4.5	3.7
SB-29	0 - 4	1.6
	13 - 15	3.8
SB-30	0.5 - 4	0.9
	12.5 - 14.5[D]	8.7
SB-31	0 - 4	1.4
	5 - 8	7.8
SB-32	0 - 0.5	6.3
SB-33	0 - 0.5	28.3
SB-34	0 - 0.5	6.8
SB-35	0 - 0.5	10.1
SB-36	5 - 8	3.2
SB-38	0.75 - 2.5	3.8
SB-39	0 - 3.5	6.9
SB-40	5 - 9	4
SB-41	0.5 - 2	18.4
SB-43	0.5 - 2.5[D]	8.9
SB-44	0 - 4	8.5
SB-45	0.5 - 5	0.9
SB-48	8 - 10	15
SB-50	6 - 8	14.6
	10 - 11	1.1
SB-57	0.5 - 5	2.3
SB-62	2 - 4	3.2
SB-63	2 - 4	8.8

Sample Location	Sample Depth (feet)	Arsenic (mg/kg)
SB-64	0 - 2	2.8
	10 - 12.5	10.1
SB-65	0.5 - 2	0.8
	5 - 6.5	1.3
SB-66	0 - 2	2.5
	7 - 8	2.4
SS-101	0 - 1.5	1.74
SS-102	0 - 1.5	3.29
SS-103	0 - 1.5	2.43
SS-104	1 - 1.5	2.16
SS-105	0 - 1.5	3.25
SS-106	0 - 1.5	3.67
SS-107	0 - 1	2.63
SS-108	0 - 1.5	2.62
SS-109	0 - 0	1.54
SS-110	0 - 1	1.64
SS-111	0 - 1	4.61
SS-112	0 - 1	4.59
SS-113	0 - 1	4.87
SS-114	0 - 1	3
SS-115	0 - 1	3.17
SS-116	0 - 1	7.33
SS-117	0 - 1	4.5
SS-118	0 - 1	4.1
SS-119	0 - 1[D]	5.15
SS-121	0 - 1	8.07
SS-120	0 - 1.5	6.61
SS-122	0 - 1	5.55
SS-123	0 - 1	7.98
SS-124	0 - 1	6.94
SS-124	2 - 4	3.5
SS-125	0 - 1	5.34
SS-126	0 - 1	8.48
SS-127	0 - 1	14.1
SS-128	0 - 1	3.95
SS-129	0 - 1	3.29
SS-130	2 - 4	2.77
SS-130	0 - 1	6.16
SS-131	0 - 1[D]	6.42
SS-132	2 - 4	6.97
SS-132	0 - 1	2.57
SS-133	0 - 1	8.11
SS-133	2 - 4	13.9
SS-134	0 - 1	9.37
SS-135	0 - 1	8.73
SS-136	0 - 1	12.2
SS-137	0 - 1	9.12
SS-138	0 - 1	2.88
SS-139	0 - 1	4.97
SS-140	0 - 1	2.79

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Arsenic (mg/kg)

General Statistics

Total Number of Observations	99	Number of Distinct Observations	86
Number of Detects	98	Number of Non-Detects	1
Number of Distinct Detects	86	Number of Distinct Non-Detects	1
Minimum Detect	0.8	Minimum Non-Detect	0.8
Maximum Detect	45.6	Maximum Non-Detect	0.8
Variance Detects	35.54	Percent Non-Detects	1.01%
Mean Detects	5.824	SD Detects	5.961
Median Detects	3.925	CV Detects	1.024
Skewness Detects	3.908	Kurtosis Detects	21.5
Mean of Logged Detects	1.449	SD of Logged Detects	0.766

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.663	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.2	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0897	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	5.773	KM Standard Error of Mean	0.598
KM SD	5.922	95% KM (BCA) UCL	6.773
95% KM (t) UCL	6.767	95% KM (Percentile Bootstrap) UCL	6.866
95% KM (z) UCL	6.757	95% KM Bootstrap t UCL	7.236
90% KM Chebyshev UCL	7.568	95% KM Chebyshev UCL	8.381
97.5% KM Chebyshev UCL	9.509	99% KM Chebyshev UCL	11.73

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	1.398	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.768	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.112	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.0918	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.747	k star (bias corrected MLE)	1.7
Theta hat (MLE)	3.334	Theta star (bias corrected MLE)	3.426
nu hat (MLE)	342.4	nu star (bias corrected)	333.2
Mean (detects)	5.824		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	5.765
Maximum	45.6	Median	3.9
SD	5.96	CV	1.034
k hat (MLE)	1.52	k star (bias corrected MLE)	1.48
Theta hat (MLE)	3.794	Theta star (bias corrected MLE)	3.895
nu hat (MLE)	300.9	nu star (bias corrected)	293.1
Adjusted Level of Significance (β)	0.0476		
Approximate Chi Square Value (293.09, α)	254.4	Adjusted Chi Square Value (293.09, β)	253.9
95% Gamma Approximate UCL (use when n>=50)	6.641	95% Gamma Adjusted UCL (use when n<50)	6.655

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	5.773	SD (KM)	5.922
Variance (KM)	35.07	SE of Mean (KM)	0.598
k hat (KM)	0.95	k star (KM)	0.928
nu hat (KM)	188.2	nu star (KM)	183.8
theta hat (KM)	6.075	theta star (KM)	6.219
80% gamma percentile (KM)	9.345	90% gamma percentile (KM)	13.54
95% gamma percentile (KM)	17.76	99% gamma percentile (KM)	27.61

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (183.80, α)	153.4	Adjusted Chi Square Value (183.80, β)	153
95% Gamma Approximate KM-UCL (use when n>=50)	6.916	95% Gamma Adjusted KM-UCL (use when n<50)	6.934

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Approximate Test Statistic	0.984	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0.742	Detected Data appear Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0633	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0897	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	5.771	Mean in Log Scale	1.428
SD in Original Scale	5.955	SD in Log Scale	0.791
95% t UCL (assumes normality of ROS data)	6.764	95% Percentile Bootstrap UCL	6.788
95% BCA Bootstrap UCL	7.057	95% Bootstrap t UCL	7.168
95% H-UCL (Log ROS)	6.732		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	1.432	KM Geo Mean	4.188
KM SD (logged)	0.777	95% Critical H Value (KM-Log)	2.07
KM Standard Error of Mean (logged)	0.0785	95% H-UCL (KM -Log)	6.663
KM SD (logged)	0.777	95% Critical H Value (KM-Log)	2.07
KM Standard Error of Mean (logged)	0.0785		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	5.769	Mean in Log Scale	1.425
SD in Original Scale	5.956	SD in Log Scale	0.799
95% t UCL (Assumes normality)	6.763	95% H-Stat UCL	6.765

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

KM H-UCL 6.663

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 2
Lead Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Lead (mg/kg)
MW-01	6 - 7	221
MW-02	11 - 13	284
MW-04	5 - 7	187
	8 - 9[W]	77.7
MW-05	1 - 5	2.13
MW-07	0 - 4	38.9
	12.5 - 15	93
MW-08	0.5 - 4	53.3
MW-09	5 - 8	46.9
	8 - 10	75
MW-10	3 - 5	96.6
MW-11	0 - 1.5	37.6
MW-14	0 - 2	94.5
	10 - 12	95.8
SB-04	3 - 5	270
SB-06	0.7 - 1	103
SB-09	0.5 - 4.5	52.7
SB-11	9 - 10	139
SB-13	7.5 - 10	74.7
SB-14	0 - 2	6.89
SB-14A	5 - 8	270
SB-21	0.5 - 2.5	46.1
SB-22	1 - 4	286
SB-23	1 - 4	250
SB-25	2 - 5[D]	29.5
SB-28	2.5 - 4.5	73.5
SB-29	0 - 4	40
	13 - 15	168
SB-30	0.5 - 4	3.01
	12.5 - 14.5[D]	190
SB-31	0 - 4	29.8
	5 - 8	273
SB-32	0 - 0.5	67.8
SB-33	0 - 0.5	245
SB-34	0 - 0.5	54
SB-35	0 - 0.5	68.7
SB-36	5 - 8	114
	8 - 10	131
SB-38	0.75 - 2.5	180
SB-39	0 - 3.5	1790
SB-40	5 - 9	162
SB-41	0.5 - 2	113
SB-43	0.5 - 2.5[D]	321
SB-44	0 - 4	22.8
SB-45	0.5 - 5	17.4
SB-50	6 - 8	142
	10 - 11	1.57
SB-57	0.5 - 5	12.7
SB-62	2 - 4	220
	4 - 6[W]	377

Sample Location	Sample Depth (feet)	Lead (mg/kg)
SB-63	2 - 4	130
SB-64	0 - 2	58.8
	10 - 12.5	133
SB-65	0.5 - 2	2.88
	5 - 6.5	2.61
SB-66	0 - 2	49
	7 - 8	140
SS-101	0 - 1.5	57.9
SS-102	0 - 1.5	97.3
SS-103	0 - 1.5	3490
SS-104	1 - 1.5	118
SS-105	0 - 1.5	54.2
SS-106	0 - 1.5	24.7
SS-107	0 - 1	38.8
SS-108	0 - 1.5	81.4
SS-109	0 - 0	13.3
SS-110	0 - 1	49.6
SS-111	0 - 1	18.8
SS-112	0 - 1	12.5
SS-113	0 - 1	15.6
SS-114	0 - 1	6.03
SS-115	0 - 1	83.3
SS-116	0 - 1	185
SS-117	0 - 1	358
SS-118	0 - 1	111
SS-119	0 - 1[D]	256
SS-121	0 - 1	400
SS-120	0 - 1.5	94.5
SS-122	0 - 1	134
SS-123	0 - 1	287
SS-124	0 - 1	82
SS-124	2 - 4	36.4
SS-125	0 - 1	325
SS-126	0 - 1	607
SS-127	0 - 1	273
SS-128	0 - 1	64.6
SS-129	0 - 1	71.3
SS-130	2 - 4	8.83
SS-130	0 - 1	65.3
SS-131	0 - 1[D]	156
SS-132	2 - 4	88.7
SS-132	0 - 1	10.9
SS-133	0 - 1	140
SS-133	2 - 4	138
SS-134	0 - 1	173
SS-135	0 - 1	134
SS-136	0 - 1	132
SS-137	0 - 1	123
SS-138	0 - 1	98.8
SS-139	0 - 1	549
SS-140	0 - 1	40.1

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Lead (mg/kg)

General Statistics

Total Number of Observations	101	Number of Distinct Observations	96
		Number of Missing Observations	0
Minimum	1.57	Mean	173.9
Maximum	3490	Median	94.5
SD	389.5	Std. Error of Mean	38.75
Coefficient of Variation	2.239	Skewness	7.034

Normal GOF Test

Shapiro Wilk Test Statistic	0.362	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.329	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0884	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	238.3	95% Adjusted-CLT UCL (Chen-1995)	266.7
		95% Modified-t UCL (Johnson-1978)	242.8

Gamma GOF Test

A-D Test Statistic	2.103	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.796	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.123	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0927	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	0.743	k star (bias corrected MLE)	0.727
Theta hat (MLE)	234.2	Theta star (bias corrected MLE)	239.1
nu hat (MLE)	150.1	nu star (bias corrected)	146.9
MLE Mean (bias corrected)	173.9	MLE Sd (bias corrected)	204
		Approximate Chi Square Value (0.05)	119.9
Adjusted Level of Significance	0.0476	Adjusted Chi Square Value	119.6

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	213.1	95% Adjusted Gamma UCL (use when n<50)	213.8

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.949	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	0.0018	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.101	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0884	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.451	Mean of logged Data	4.352
Maximum of Logged Data	8.158	SD of logged Data	1.34

Assuming Lognormal Distribution

95% H-UCL	267.7	90% Chebyshev (MVUE) UCL	286.7
95% Chebyshev (MVUE) UCL	331.7	97.5% Chebyshev (MVUE) UCL	394.1
99% Chebyshev (MVUE) UCL	516.7		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	237.7	95% Jackknife UCL	238.3
95% Standard Bootstrap UCL	238.3	95% Bootstrap-t UCL	360.9
95% Hall's Bootstrap UCL	535.8	95% Percentile Bootstrap UCL	245.1
95% BCA Bootstrap UCL	279.1		
90% Chebyshev(Mean, Sd) UCL	290.2	95% Chebyshev(Mean, Sd) UCL	342.9
97.5% Chebyshev(Mean, Sd) UCL	416	99% Chebyshev(Mean, Sd) UCL	559.5

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL	342.9

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 3
Benzo(a)anthrcene Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Benzo(a)anthracene (ug/kg)
MW-01	6 - 7	420
MW-02	11 - 13	1200
MW-04	5 - 7	1300
	8 - 9[W]	1500
MW-05	1 - 5	<270
MW-07	0 - 4	260
	12.5 - 15	2100
MW-08	0.5 - 4	<520
MW-09	5 - 8	<250
MW-10	3 - 5	<260
MW-11	0 - 1.5	2200
MW-14	0 - 2	340
	10 - 12	380
SB-09	0.5 - 4.5	<260
SB-11	9 - 10	5200
SB-13	7.5 - 10	660
SB-14	0 - 2	<290
SB-14A	5 - 8	3200
SB-16	10 - 11.5	<270
SB-21	0.5 - 2.5	<270
SB-22	1 - 4	1600
SB-23	1 - 4	<280
SB-25	2 - 5[D]	9400
SB-28	2.5 - 4.5	<270
SB-29	0 - 4	<240
	13 - 15	460
SB-30	0.5 - 4	<250
	12.5 - 14.5[D]	800
SB-31	0 - 4	1600
	5 - 8	1600
SB-36	5 - 8	7600
	8 - 10	10000
SB-37	5 - 10	<240
SB-38	0.75 - 2.5	<250
SB-39	0 - 3.5	<2700
SB-40	5 - 9	440
SB-41	0.5 - 2	<540
SB-43	0.5 - 2.5[D]	2000
SB-44	0 - 4	<290
SB-45	0.5 - 5	3400
SB-46	0 - 4	3800
	5 - 7.5	540
SB-48	8 - 10	<280
SB-49	6 - 8	260
SB-50	6 - 8	580
	10 - 11	<280
SB-51	5 - 10	<250
SB-57	0.5 - 5	<500
SB-64	0 - 2	660
	10 - 12.5	590
SB-65	0.5 - 2	<250
	5 - 6.5	<240
SB-66	0 - 2	970
	7 - 8	1100
SB-67	6.5 - 7.5	<250
SS-101	0 - 1.5	<240
SS-102	0 - 1.5	<250
SS-103	0 - 1.5	<250
SS-104	1 - 1.5	<240

Sample Location	Sample Depth (feet)	Benzo(a)anthracene (ug/kg)
SS-105	0 - 1.5	<270
SS-106	0 - 1.5	<250
SS-107	0 - 1	2000
SS-108	0 - 1.5	20000
SS-109	0 - 0	<240
SS-110	0 - 1	470
SS-111	0 - 1	<240
SS-112	0 - 1	<230
SS-113	0 - 1	<240
SS-114	0 - 1	<260
SS-115	0 - 1	460
SS-116	0 - 1	600
SS-117	0 - 1	860
SS-118	0 - 1	1000
SS-119	0 - 1[D]	8200
SS-121	0 - 1	960
SS-120	0 - 1.5	<240
SS-122	0 - 1	730
SS-123	0 - 1	<250
SS-124	0 - 1	590
SS-124	2 - 4	<240
SS-125	0 - 1	470
SS-126	0 - 1	890
SS-127	0 - 1	600
SS-128	0 - 1	380
SS-129	0 - 1	880
SS-130	2 - 4	<250
SS-130	0 - 1	<250
SS-131	0 - 1[D]	890
SS-132	2 - 4	760
SS-132	0 - 1	830
SS-133	0 - 1	2800
SS-133	2 - 4	<260
SS-134	0 - 1	4300
SS-135	0 - 1	550
SS-136	0 - 1	360
SS-137	0 - 1	550
SS-138	0 - 1	310
SS-139	0 - 1	2000
SS-140	0 - 1	<260
TP-108A	0.5 - 1.5	950
	1.5 - 2.5	16000
TP-108B	0.5 - 1.5	2000
	1.5 - 2.5	<260
TP-108C	0.5 - 1.5	1700
	1.5 - 2.5	990
TP-108D	0.5 - 1.5	1400
	1.5 - 2.5	9800
TP-108E	4	3600
TP-119A	1 - 3	900
	3 - 4	1400
TP-119B	1 - 3	1300
	3 - 4	1800
TP-119C	1 - 3	1400
	3 - 4	3800
TP-119D	1 - 3	1200
	3 - 4[D]	3500
TP-119E	4	2000
TP-136	0.5 - 4	2100
	7	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Benzo(a)anthracene (ug/kg)

General Statistics

Total Number of Observations	119	Number of Distinct Observations	63
Number of Detects	75	Number of Non-Detects	44
Number of Distinct Detects	54	Number of Distinct Non-Detects	11
Minimum Detect	260	Minimum Non-Detect	230
Maximum Detect	20000	Maximum Non-Detect	2700
Variance Detects	11738098	Percent Non-Detects	36.97%
Mean Detects	2326	SD Detects	3426
Median Detects	1100	CV Detects	1.473
Skewness Detects	3.277	Kurtosis Detects	12.2
Mean of Logged Detects	7.167	SD of Logged Detects	0.996

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.584	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.301	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.102	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1556	KM Standard Error of Mean	266.2
KM SD	2884	95% KM (BCA) UCL	2029
95% KM (t) UCL	1997	95% KM (Percentile Bootstrap) UCL	2021
95% KM (z) UCL	1994	95% KM Bootstrap t UCL	2158
90% KM Chebyshev UCL	2354	95% KM Chebyshev UCL	2716
97.5% KM Chebyshev UCL	3218	99% KM Chebyshev UCL	4204

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.499	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.782	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.178	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.106	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	0.989	k star (bias corrected MLE)	0.958
Theta hat (MLE)	2353	Theta star (bias corrected MLE)	2428
nu hat (MLE)	148.3	nu star (bias corrected)	143.7
Mean (detects)	2326		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1466
Maximum	20000	Median	550
SD	2938	CV	2.004
k hat (MLE)	0.169	k star (bias corrected MLE)	0.17
Theta hat (MLE)	8687	Theta star (bias corrected MLE)	8618
nu hat (MLE)	40.16	nu star (bias corrected)	40.48
Adjusted Level of Significance (β)	0.048		
Approximate Chi Square Value (40.48, α)	26.9	Adjusted Chi Square Value (40.48, β)	26.77
95% Gamma Approximate UCL (use when n>=50)	2206	95% Gamma Adjusted UCL (use when n<50)	2217

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1556	SD (KM)	2884
Variance (KM)	8314602	SE of Mean (KM)	266.2
k hat (KM)	0.291	k star (KM)	0.289
nu hat (KM)	69.29	nu star (KM)	68.88
theta hat (KM)	5344	theta star (KM)	5376
80% gamma percentile (KM)	2364	90% gamma percentile (KM)	4608
95% gamma percentile (KM)	7199	99% gamma percentile (KM)	13965

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (68.88, α)	50.78	Adjusted Chi Square Value (68.88, β)	50.59
95% Gamma Approximate KM-UCL (use when n>=50)	2111	95% Gamma Adjusted KM-UCL (use when n<50)	2119

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Approximate Test Statistic	0.943	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0.00398	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0961	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.102	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1521	Mean in Log Scale	6.305
SD in Original Scale	2912	SD in Log Scale	1.427
95% t UCL (assumes normality of ROS data)	1963	95% Percentile Bootstrap UCL	1976
95% BCA Bootstrap UCL	2058	95% Bootstrap t UCL	2111
95% H-UCL (Log ROS)	2151		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	6.538	KM Geo Mean	690.9
KM SD (logged)	1.141	95% Critical H Value (KM-Log)	2.358
KM Standard Error of Mean (logged)	0.106	95% H-UCL (KM -Log)	1698
KM SD (logged)	1.141	95% Critical H Value (KM-Log)	2.358
KM Standard Error of Mean (logged)	0.106		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1527	Mean in Log Scale	6.347
SD in Original Scale	2911	SD in Log Scale	1.354
95% t UCL (Assumes normality)	1969	95% H-Stat UCL	1971

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

KM H-UCL	1698

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 4
Benzo(a)pyrene Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Benzo(a)pyrene (ug/kg)
MW-01	6 - 7	480
MW-02	11 - 13	1200
MW-04	5 - 7	1400
	8 - 9[W]	980
MW-05	1 - 5	<270
MW-07	0 - 4	280
	12.5 - 15	2000
MW-08	0.5 - 4	<520
MW-09	5 - 8	<250
MW-10	3 - 5	<260
MW-11	0 - 1.5	2500
MW-14	0 - 2	410
	10 - 12	420
SB-09	0.5 - 4.5	<260
SB-11	9 - 10	5000
SB-13	7.5 - 10	740
SB-14	0 - 2	<290
SB-14A	5 - 8	2600
SB-16	10 - 11.5	<270
SB-21	0.5 - 2.5	<270
SB-22	1 - 4	1600
SB-23	1 - 4	<280
SB-25	2 - 5[D]	6800
SB-28	2.5 - 4.5	<270
SB-29	0 - 4	<240
	13 - 15	490
SB-30	0.5 - 4	<250
	12.5 - 14.5[D]	800
SB-31	0 - 4	1700
	5 - 8	1300
SB-36	5 - 8	7200
	8 - 10	7900
SB-37	5 - 10	<240
SB-38	0.75 - 2.5	<250
SB-39	0 - 3.5	<2700
SB-40	5 - 9	440
SB-41	0.5 - 2	<540
SB-43	0.5 - 2.5[D]	2000
SB-44	0 - 4	<290
SB-45	0.5 - 5	4100
SB-46	0 - 4	3000
	5 - 7.5	480
SB-48	8 - 10	<280
SB-49	6 - 8	300
SB-50	6 - 8	1100
	10 - 11	<280
SB-51	5 - 10	<250
SB-57	0.5 - 5	<500
SB-64	0 - 2	840
	10 - 12.5	640
SB-65	0.5 - 2	<250
	5 - 6.5	<240
SB-66	0 - 2	830
	7 - 8	1000
SB-67	6.5 - 7.5	<250
SS-101	0 - 1.5	<240
SS-102	0 - 1.5	<250
SS-103	0 - 1.5	<250
SS-104	1 - 1.5	<240

Sample Location	Sample Depth (feet)	Benzo(a)pyrene (ug/kg)
SS-105	0 - 1.5	<270
SS-106	0 - 1.5	<250
SS-107	0 - 1	1700
SS-108	0 - 1.5	17000
SS-109	0 - 0	840
SS-110	0 - 1	660
SS-111	0 - 1	<240
SS-112	0 - 1	<230
SS-113	0 - 1	<240
SS-114	0 - 1	<260
SS-115	0 - 1	540
SS-116	0 - 1	580
SS-117	0 - 1	800
SS-118	0 - 1	1200
SS-119	0 - 1[D]	7100
SS-121	0 - 1	1000
SS-120	0 - 1.5	250
SS-122	0 - 1	720
SS-123	0 - 1	<250
SS-124	0 - 1	600
SS-124	2 - 4	<240
SS-125	0 - 1	490
SS-126	0 - 1	920
SS-127	0 - 1	630
SS-128	0 - 1	350
SS-129	0 - 1	850
SS-130	2 - 4	<250
SS-130	0 - 1	<250
SS-131	0 - 1[D]	990
SS-132	2 - 4	760
SS-132	0 - 1	870
SS-133	0 - 1	2400
SS-133	2 - 4	290
SS-134	0 - 1	3900
SS-135	0 - 1	580
SS-136	0 - 1	440
SS-137	0 - 1	630
SS-138	0 - 1	330
SS-139	0 - 1	1700
SS-140	0 - 1	330
TP-108A	0.5 - 1.5	1100
	1.5 - 2.5	16000
TP-108B	0.5 - 1.5	2100
	1.5 - 2.5	<260
TP-108C	0.5 - 1.5	1800
	1.5 - 2.5	1000
TP-108D	0.5 - 1.5	1600
	1.5 - 2.5	9600
TP-108E	4	3600
TP-119A	1 - 3	1000
	3 - 4	1400
TP-119B	1 - 3	1300
	3 - 4	1800
TP-119C	1 - 3	1400
	3 - 4	3500
TP-119D	1 - 3	1300
	3 - 4[D]	3300
TP-119E	4	1900
TP-136	0.5 - 4	1700
	7	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Benzo(a)pyrene (ug/kg)

General Statistics

Total Number of Observations	119	Number of Distinct Observations	63
Number of Detects	79	Number of Non-Detects	40
Number of Distinct Detects	56	Number of Distinct Non-Detects	11
Minimum Detect	250	Minimum Non-Detect	230
Maximum Detect	17000	Maximum Non-Detect	2700
Variance Detects	8932718	Percent Non-Detects	33.61%
Mean Detects	2093	SD Detects	2989
Median Detects	1000	CV Detects	1.428
Skewness Detects	3.396	Kurtosis Detects	13.05
Mean of Logged Detects	7.112	SD of Logged Detects	0.95

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.577	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.285	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0998	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1473	KM Standard Error of Mean	237.5
KM SD	2573	95% KM (BCA) UCL	1893
95% KM (t) UCL	1866	95% KM (Percentile Bootstrap) UCL	1877
95% KM (z) UCL	1863	95% KM Bootstrap t UCL	2063
90% KM Chebyshev UCL	2185	95% KM Chebyshev UCL	2508
97.5% KM Chebyshev UCL	2956	99% KM Chebyshev UCL	3835

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.432	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.78	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.164	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.103	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.071	k star (bias corrected MLE)	1.039
Theta hat (MLE)	1954	Theta star (bias corrected MLE)	2015
nu hat (MLE)	169.3	nu star (bias corrected)	164.2
Mean (detects)	2093		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1390
Maximum	17000	Median	630
SD	2625	CV	1.889
k hat (MLE)	0.184	k star (bias corrected MLE)	0.185
Theta hat (MLE)	7572	Theta star (bias corrected MLE)	7532
nu hat (MLE)	43.68	nu star (bias corrected)	43.91
Adjusted Level of Significance (β)	0.048		
Approximate Chi Square Value (43.91, α)	29.72	Adjusted Chi Square Value (43.91, β)	29.57
95% Gamma Approximate UCL (use when n>=50)	2054	95% Gamma Adjusted UCL (use when n<50)	2064

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1473	SD (KM)	2573
Variance (KM)	6621686	SE of Mean (KM)	237.5
k hat (KM)	0.327	k star (KM)	0.325
nu hat (KM)	77.94	nu star (KM)	77.31
theta hat (KM)	4497	theta star (KM)	4533
80% gamma percentile (KM)	2299	90% gamma percentile (KM)	4299
95% gamma percentile (KM)	6564	99% gamma percentile (KM)	12396

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (77.31, α)	58.06	Adjusted Chi Square Value (77.31, β)	57.85
95% Gamma Approximate KM-UCL (use when n>=50)	1961	95% Gamma Adjusted KM-UCL (use when n<50)	1968

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Approximate Test Statistic	0.948	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0.00719	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0914	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0998	Detected Data appear Lognormal at 5% Significance Level	

Detected Data appear Approximate Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1444	Mean in Log Scale	6.383
SD in Original Scale	2598	SD in Log Scale	1.326
95% t UCL (assumes normality of ROS data)	1838	95% Percentile Bootstrap UCL	1872
95% BCA Bootstrap UCL	1970	95% Bootstrap t UCL	2020
95% H-UCL (Log ROS)	1945		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	6.561	KM Geo Mean	706.7
KM SD (logged)	1.098	95% Critical H Value (KM-Log)	2.315
KM Standard Error of Mean (logged)	0.102	95% H-UCL (KM -Log)	1632
KM SD (logged)	1.098	95% Critical H Value (KM-Log)	2.315
KM Standard Error of Mean (logged)	0.102		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1446	Mean in Log Scale	6.389
SD in Original Scale	2598	SD in Log Scale	1.302
95% t UCL (Assumes normality)	1841	95% H-Stat UCL	1880

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Detected Data appear Approximate Lognormal Distributed at 5% Significance Level

Suggested UCL to Use

KM H-UCL	1632

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 5
Benzo(b)fluoranthene Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Benzo(b)fluoranthene (ug/kg)
MW-01	6 - 7	680
MW-02	11 - 13	1300
MW-04	5 - 7	1400
	8 - 9[W]	910
MW-05	1 - 5	<270
MW-07	0 - 4	330
	12.5 - 15	2300
MW-08	0.5 - 4	<520
MW-09	5 - 8	<250
MW-10	3 - 5	<260
MW-11	0 - 1.5	2100
MW-14	0 - 2	460
	10 - 12	430
SB-09	0.5 - 4.5	310
SB-11	9 - 10	7000
SB-13	7.5 - 10	920
SB-14	0 - 2	<290
SB-14A	5 - 8	2800
SB-16	10 - 11.5	<270
SB-21	0.5 - 2.5	<270
SB-22	1 - 4	2400
SB-23	1 - 4	320
SB-25	2 - 5[D]	7100
SB-28	2.5 - 4.5	<270
SB-29	0 - 4	<240
	13 - 15	470
SB-30	0.5 - 4	<250
	12.5 - 14.5[D]	940
SB-31	0 - 4	2100
	5 - 8	1700
SB-36	5 - 8	8100
	8 - 10	11000
SB-37	5 - 10	<240
SB-38	0.75 - 2.5	<250
SB-39	0 - 3.5	<2700
SB-40	5 - 9	590
SB-41	0.5 - 2	<540
SB-43	0.5 - 2.5[D]	2500
SB-44	0 - 4	<290
SB-45	0.5 - 5	4900
SB-46	0 - 4	3200
	5 - 7.5	630
SB-48	8 - 10	<280
SB-49	6 - 8	400
SB-50	6 - 8	1100
	10 - 11	<280
SB-51	5 - 10	<250
SB-57	0.5 - 5	<500
SB-64	0 - 2	690
	10 - 12.5	590
SB-65	0.5 - 2	<250
	5 - 6.5	<240
SB-66	0 - 2	700
	7 - 8	900
SB-67	6.5 - 7.5	<250
SS-101	0 - 1.5	<240
SS-102	0 - 1.5	290
SS-103	0 - 1.5	<250
SS-104	1 - 1.5	<240

Sample Location	Sample Depth (feet)	Benzo(b)fluoranthene (ug/kg)
SS-105	0 - 1.5	<270
SS-106	0 - 1.5	<250
SS-107	0 - 1	1800
SS-108	0 - 1.5	16000
SS-109	0 - 0	490
SS-110	0 - 1	700
SS-111	0 - 1	<240
SS-112	0 - 1	<230
SS-113	0 - 1	<240
SS-114	0 - 1	<260
SS-115	0 - 1	600
SS-116	0 - 1	570
SS-117	0 - 1	800
SS-118	0 - 1	1400
SS-119	0 - 1[D]	7700
SS-121	0 - 1	1100
SS-120	0 - 1.5	310
SS-122	0 - 1	840
SS-123	0 - 1	<250
SS-124	0 - 1	710
SS-124	2 - 4	<240
SS-125	0 - 1	690
SS-126	0 - 1	820
SS-127	0 - 1	810
SS-128	0 - 1	390
SS-129	0 - 1	1200
SS-130	2 - 4	<250
SS-130	0 - 1	290
SS-131	0 - 1[D]	1400
SS-132	2 - 4	760
SS-132	0 - 1	770
SS-133	0 - 1	2800
SS-133	2 - 4	310
SS-134	0 - 1	4200
SS-135	0 - 1	710
SS-136	0 - 1	540
SS-137	0 - 1	850
SS-138	0 - 1	340
SS-139	0 - 1	1800
SS-140	0 - 1	320
TP-108A	0.5 - 1.5	870
	1.5 - 2.5	12000
TP-108B	0.5 - 1.5	1700
	1.5 - 2.5	<260
TP-108C	0.5 - 1.5	1600
	1.5 - 2.5	960
TP-108D	0.5 - 1.5	1300
	1.5 - 2.5	6900
TP-108E	4	3400
TP-119A	1 - 3	850
	3 - 4	1200
TP-119B	1 - 3	1400
	3 - 4	1700
TP-119C	1 - 3	1400
	3 - 4	3500
TP-119D	1 - 3	1100
	3 - 4[D]	3700
TP-119E	4	1700
TP-136	0.5 - 4	1400
	7	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Benzo(b)fluoranthene (ug/kg)

General Statistics

Total Number of Observations	119	Number of Distinct Observations	68
Number of Detects	83	Number of Non-Detects	36
Number of Distinct Detects	59	Number of Distinct Non-Detects	11
Minimum Detect	290	Minimum Non-Detect	230
Maximum Detect	16000	Maximum Non-Detect	2700
Variance Detects	7743480	Percent Non-Detects	30.25%
Mean Detects	2051	SD Detects	2783
Median Detects	960	CV Detects	1.357
Skewness Detects	2.95	Kurtosis Detects	9.696
Mean of Logged Detects	7.093	SD of Logged Detects	0.958

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.618	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.283	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0974	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	1506	KM Standard Error of Mean	226.5
KM SD	2455	95% KM (BCA) UCL	1940
95% KM (t) UCL	1881	95% KM (Percentile Bootstrap) UCL	1880
95% KM (z) UCL	1878	95% KM Bootstrap t UCL	1985
90% KM Chebyshev UCL	2185	95% KM Chebyshev UCL	2493
97.5% KM Chebyshev UCL	2920	99% KM Chebyshev UCL	3759

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.75	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.781	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.178	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.101	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.074	k star (bias corrected MLE)	1.043
Theta hat (MLE)	1910	Theta star (bias corrected MLE)	1966
nu hat (MLE)	178.3	nu star (bias corrected)	173.2
Mean (detects)	2051		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	1431
Maximum	16000	Median	690
SD	2505	CV	1.751
k hat (MLE)	0.199	k star (bias corrected MLE)	0.199
Theta hat (MLE)	7208	Theta star (bias corrected MLE)	7186
nu hat (MLE)	47.24	nu star (bias corrected)	47.39
Adjusted Level of Significance (β)	0.048		
Approximate Chi Square Value (47.39, α)	32.59	Adjusted Chi Square Value (47.39, β)	32.44
95% Gamma Approximate UCL (use when n>=50)	2080	95% Gamma Adjusted UCL (use when n<50)	2090

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	1506	SD (KM)	2455
Variance (KM)	6027490	SE of Mean (KM)	226.5
k hat (KM)	0.376	k star (KM)	0.372
nu hat (KM)	89.51	nu star (KM)	88.58
theta hat (KM)	4003	theta star (KM)	4045
80% gamma percentile (KM)	2407	90% gamma percentile (KM)	4305
95% gamma percentile (KM)	6412	99% gamma percentile (KM)	11751

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (88.58, α)	67.88	Adjusted Chi Square Value (88.58, β)	67.66
95% Gamma Approximate KM-UCL (use when n>=50)	1965	95% Gamma Adjusted KM-UCL (use when n<50)	1971

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Approximate Test Statistic	0.937	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	6.1492E-4	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.1	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0974	Detected Data Not Lognormal at 5% Significance Level	

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	1479	Mean in Log Scale	6.445
SD in Original Scale	2479	SD in Log Scale	1.303
95% t UCL (assumes normality of ROS data)	1856	95% Percentile Bootstrap UCL	1883
95% BCA Bootstrap UCL	1950	95% Bootstrap t UCL	1976
95% H-UCL (Log ROS)	1990		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	6.603	KM Geo Mean	737.5
KM SD (logged)	1.095	95% Critical H Value (KM-Log)	2.312
KM Standard Error of Mean (logged)	0.101	95% H-UCL (KM -Log)	1695
KM SD (logged)	1.095	95% Critical H Value (KM-Log)	2.312
KM Standard Error of Mean (logged)	0.101		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	1483	Mean in Log Scale	6.452
SD in Original Scale	2479	SD in Log Scale	1.285
95% t UCL (Assumes normality)	1860	95% H-Stat UCL	1946

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL 2493

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 6
Dibenzo(a,h)anthracene Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Dibenzo(a,h)anthracene (ug/kg)
MW-01	6 - 7	<260
MW-02	11 - 13	300
MW-04	5 - 7	<280
	8 - 9[W]	<320
MW-05	1 - 5	<270
MW-07	0 - 4	<250
	12.5 - 15	320
MW-08	0.5 - 4	<520
MW-09	5 - 8	<250
MW-10	3 - 5	<260
MW-11	0 - 1.5	360
MW-14	0 - 2	<250
	10 - 12	<260
SB-09	0.5 - 4.5	<260
SB-11	9 - 10	<260
SB-13	7.5 - 10	<270
SB-14	0 - 2	<290
SB-14A	5 - 8	470
SB-16	10 - 11.5	<270
SB-21	0.5 - 2.5	<270
SB-22	1 - 4	<260
SB-23	1 - 4	<280
SB-25	2 - 5[D]	730
SB-28	2.5 - 4.5	<270
SB-29	0 - 4	<240
	13 - 15	<250
SB-30	0.5 - 4	<250
	12.5 - 14.5[D]	<270
SB-31	0 - 4	<260
	5 - 8	<260
SB-36	5 - 8	850
	8 - 10	<260
SB-37	5 - 10	<240
SB-38	0.75 - 2.5	<250
SB-39	0 - 3.5	<2700
SB-40	5 - 9	<260
SB-41	0.5 - 2	<540
SB-43	0.5 - 2.5[D]	290
SB-44	0 - 4	<290
SB-45	0.5 - 5	660
SB-46	0 - 4	370
	5 - 7.5	<270
SB-48	8 - 10	<280
SB-49	6 - 8	<260
SB-50	6 - 8	<550
	10 - 11	<280
SB-51	5 - 10	<250
SB-57	0.5 - 5	<500
SB-64	0 - 2	<250
	10 - 12.5	<260
SB-65	0.5 - 2	<250
	5 - 6.5	<240
SB-66	0 - 2	<240
	7 - 8	<250
SB-67	6.5 - 7.5	<250
SS-101	0 - 1.5	<240
SS-102	0 - 1.5	<250
SS-103	0 - 1.5	<250
SS-104	1 - 1.5	<240

Sample Location	Sample Depth (feet)	Dibenzo(a,h)anthracene (ug/kg)
SS-105	0 - 1.5	<270
SS-106	0 - 1.5	<250
SS-107	0 - 1	<250
SS-108	0 - 1.5	4200
SS-109	0 - 0	<240
SS-110	0 - 1	<240
SS-111	0 - 1	<240
SS-112	0 - 1	<230
SS-113	0 - 1	<240
SS-114	0 - 1	<260
SS-115	0 - 1	<260
SS-116	0 - 1	<240
SS-117	0 - 1	<240
SS-118	0 - 1	<270
SS-119	0 - 1[D]	1500
SS-121	0 - 1	<270
SS-120	0 - 1.5	<240
SS-122	0 - 1	<240
SS-123	0 - 1	<250
SS-124	0 - 1	<250
SS-124	2 - 4	<240
SS-125	0 - 1	<270
SS-126	0 - 1	<240
SS-127	0 - 1	<270
SS-128	0 - 1	<250
SS-129	0 - 1	<260
SS-130	2 - 4	<250
SS-130	0 - 1	<250
SS-131	0 - 1[D]	<300
SS-132	2 - 4	<260
SS-132	0 - 1	<250
SS-133	0 - 1	<250
SS-133	2 - 4	<260
SS-134	0 - 1	640
SS-135	0 - 1	<250
SS-136	0 - 1	<260
SS-137	0 - 1	<260
SS-138	0 - 1	<250
SS-139	0 - 1	280
SS-140	0 - 1	<260
TP-108A	0.5 - 1.5	<240
	1.5 - 2.5	<4800
TP-108B	0.5 - 1.5	300
	1.5 - 2.5	<260
TP-108C	0.5 - 1.5	280
	1.5 - 2.5	<250
TP-108D	0.5 - 1.5	<240
	1.5 - 2.5	<2400
TP-108E	4	380
TP-119A	1 - 3	<260
	3 - 4	<260
TP-119B	1 - 3	<270
	3 - 4	<260
TP-119C	1 - 3	<270
	3 - 4	540
TP-119D	1 - 3	<260
	3 - 4[D]	350
TP-119E	4	340
TP-136	0.5 - 4	320
	7	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Dibenzo(a,h)anthracene (ug/kg)

General Statistics

Total Number of Observations	119	Number of Distinct Observations	28
Number of Detects	20	Number of Non-Detects	99
Number of Distinct Detects	17	Number of Distinct Non-Detects	16
Minimum Detect	280	Minimum Non-Detect	230
Maximum Detect	4200	Maximum Non-Detect	4800
Variance Detects	773278	Percent Non-Detects	83.19%
Mean Detects	674	SD Detects	879.4
Median Detects	365	CV Detects	1.305
Skewness Detects	3.773	Kurtosis Detects	15.21
Mean of Logged Detects	6.185	SD of Logged Detects	0.678

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.466	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.905	Detected Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.327	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.192	Detected Data Not Normal at 5% Significance Level

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	306.5	KM Standard Error of Mean	36.95
KM SD	390.6	95% KM (BCA) UCL	400.8
95% KM (t) UCL	367.8	95% KM (Percentile Bootstrap) UCL	376.9
95% KM (z) UCL	367.3	95% KM Bootstrap t UCL	497.9
90% KM Chebyshev UCL	417.4	95% KM Chebyshev UCL	467.6
97.5% KM Chebyshev UCL	537.3	99% KM Chebyshev UCL	674.1

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	2.344	**Anderson-Darling GOF Test**
5% A-D Critical Value	0.756	Detected Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.258	**Kolmogorov-Smirnov GOF**
5% K-S Critical Value	0.197	Detected Data Not Gamma Distributed at 5% Significance Level

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.671	k star (bias corrected MLE)	1.454
Theta hat (MLE)	403.3	Theta star (bias corrected MLE)	463.6
nu hat (MLE)	66.85	nu star (bias corrected)	58.15
Mean (detects)	674		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs
GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)
For such situations, GROS method may yield incorrect values of UCLs and BTVs
This is especially true when the sample size is small.
For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	113.3
Maximum	4200	Median	0.01
SD	434.2	CV	3.833
k hat (MLE)	0.107	k star (bias corrected MLE)	0.11
Theta hat (MLE)	1058	Theta star (bias corrected MLE)	1030
nu hat (MLE)	25.48	nu star (bias corrected)	26.17
Adjusted Level of Significance (β)	0.048		
Approximate Chi Square Value (26.17, α)	15.51	Adjusted Chi Square Value (26.17, β)	15.41
95% Gamma Approximate UCL (use when n>=50)	191.2	95% Gamma Adjusted UCL (use when n<50)	192.4

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	306.5	SD (KM)	390.6
Variance (KM)	152562	SE of Mean (KM)	36.95
k hat (KM)	0.616	k star (KM)	0.606
nu hat (KM)	146.6	nu star (KM)	144.2
theta hat (KM)	497.7	theta star (KM)	505.9
80% gamma percentile (KM)	505.2	90% gamma percentile (KM)	795.4
95% gamma percentile (KM)	1099	99% gamma percentile (KM)	1833

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (144.20, α)	117.5	Adjusted Chi Square Value (144.20, β)	117.2
95% Gamma Approximate KM-UCL (use when n>=50)	376.3	95% Gamma Adjusted KM-UCL (use when n<50)	377.3

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Test Statistic	0.767	**Shapiro Wilk GOF Test**
5% Shapiro Wilk Critical Value	0.905	Detected Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.241	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.192	Detected Data Not Lognormal at 5% Significance Level

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	159.1	Mean in Log Scale	4.052
SD in Original Scale	424.6	SD in Log Scale	1.333
95% t UCL (assumes normality of ROS data)	223.6	95% Percentile Bootstrap UCL	230.2
95% BCA Bootstrap UCL	269.6	95% Bootstrap t UCL	311.4
95% H-UCL (Log ROS)	191.5		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	5.568	KM Geo Mean	262
KM SD (logged)	0.393	95% Critical H Value (KM-Log)	1.78
KM Standard Error of Mean (logged)	0.0373	95% H-UCL (KM -Log)	301.8
KM SD (logged)	0.393	95% Critical H Value (KM-Log)	1.78
KM Standard Error of Mean (logged)	0.0373		

DL/2 Statistics

DL/2 Normal		DL/2 Log-Transformed	
Mean in Original Scale	263.1	Mean in Log Scale	5.166
SD in Original Scale	472.7	SD in Log Scale	0.677
95% t UCL (Assumes normality)	334.9	95% H-Stat UCL	248.8

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL	467.6

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Table 7
Indeno(1,2,3-cd)pyrene Values Used to Calculate 95% UCL for Fill
Former Anocoil Facility
Vernon, Connecticut

Sample Location	Sample Depth (feet)	Indeno(1,2,3-cd)pyrene (ug/kg)
MW-01	6 - 7	350
MW-02	11 - 13	760
MW-04	5 - 7	750
	8 - 9[W]	510
MW-05	1 - 5	<270
MW-07	0 - 4	310
	12.5 - 15	1000
MW-08	0.5 - 4	<520
MW-09	5 - 8	<250
MW-10	3 - 5	<260
MW-11	0 - 1.5	1500
MW-14	0 - 2	340
	10 - 12	300
SB-09	0.5 - 4.5	<260
SB-11	9 - 10	3400
SB-13	7.5 - 10	530
SB-14	0 - 2	<290
SB-14A	5 - 8	970
SB-16	10 - 11.5	<270
SB-21	0.5 - 2.5	<270
SB-22	1 - 4	350
SB-23	1 - 4	<280
SB-25	2 - 5[D]	1500
SB-28	2.5 - 4.5	<270
SB-29	0 - 4	<240
	13 - 15	280
SB-30	0.5 - 4	<250
	12.5 - 14.5[D]	450
SB-31	0 - 4	1100
	5 - 8	770
SB-36	5 - 8	4000
	8 - 10	4500
SB-37	5 - 10	<240
SB-38	0.75 - 2.5	<250
SB-39	0 - 3.5	<2700
SB-40	5 - 9	360
SB-41	0.5 - 2	<540
SB-43	0.5 - 2.5[D]	1200
SB-44	0 - 4	<290
SB-45	0.5 - 5	2600
SB-46	0 - 4	1600
	5 - 7.5	390
SB-48	8 - 10	<280
SB-49	6 - 8	300
SB-50	6 - 8	830
	10 - 11	<280
SB-51	5 - 10	<250
SB-57	0.5 - 5	<500
SB-64	0 - 2	600
	10 - 12.5	450
SB-65	0.5 - 2	<250
	5 - 6.5	<240
SB-66	0 - 2	470
	7 - 8	630
SB-67	6.5 - 7.5	<250
SS-101	0 - 1.5	<240
SS-102	0 - 1.5	<250
SS-103	0 - 1.5	<250
SS-104	1 - 1.5	<240

Sample Location	Sample Depth (feet)	Indeno(1,2,3-cd)pyrene (ug/kg)
SS-105	0 - 1.5	<270
SS-106	0 - 1.5	<250
SS-107	0 - 1	1100
SS-108	0 - 1.5	11000
SS-109	0 - 0	1000
SS-110	0 - 1	850
SS-111	0 - 1	290
SS-112	0 - 1	<230
SS-113	0 - 1	<240
SS-114	0 - 1	<260
SS-115	0 - 1	330
SS-116	0 - 1	360
SS-117	0 - 1	460
SS-118	0 - 1	1100
SS-119	0 - 1[D]	4400
SS-121	0 - 1	710
SS-120	0 - 1.5	<240
SS-122	0 - 1	500
SS-123	0 - 1	<250
SS-124	0 - 1	470
SS-124	2 - 4	<240
SS-125	0 - 1	370
SS-126	0 - 1	690
SS-127	0 - 1	620
SS-128	0 - 1	280
SS-129	0 - 1	520
SS-130	2 - 4	<250
SS-130	0 - 1	280
SS-131	0 - 1[D]	880
SS-132	2 - 4	650
SS-132	0 - 1	600
SS-133	0 - 1	1500
SS-133	2 - 4	330
SS-134	0 - 1	2900
SS-135	0 - 1	490
SS-136	0 - 1	380
SS-137	0 - 1	550
SS-138	0 - 1	340
SS-139	0 - 1	1100
SS-140	0 - 1	290
TP-108A	0.5 - 1.5	800
	1.5 - 2.5	9400
TP-108B	0.5 - 1.5	1300
	1.5 - 2.5	<260
TP-108C	0.5 - 1.5	1200
	1.5 - 2.5	610
TP-108D	0.5 - 1.5	1000
	1.5 - 2.5	4600
TP-108E	4	1900
TP-119A	1 - 3	680
	3 - 4	1200
TP-119B	1 - 3	1100
	3 - 4	1100
TP-119C	1 - 3	1000
	3 - 4	2500
TP-119D	1 - 3	990
	3 - 4[D]	2200
TP-119E	4	1400
TP-136	0.5 - 4	1100
	7	<250

Notes:
Units: ug=micrograms, mg=milligrams, kg=kilograms
< = constituent not detected at the specified laboratory reporting limit
---- = not analyzed
[D]Duplicate sample collected; the highest concentration of the primary and duplicate samples is reported

UCL Statistics for Data Sets with Non-Detects
Date/Time of Computation: ProUCL 5.1, 1/9/2017, 3:51:08 PM
Confidence Coefficient: 95%
Number of Bootstrap Operations: 2000

Indeno(1,2,3-CD)pyrene (ug/kg)

General Statistics

Total Number of Observations	119	Number of Distinct Observations	63
Number of Detects	80	Number of Non-Detects	39
Number of Distinct Detects	56	Number of Distinct Non-Detects	11
Minimum Detect	280	Minimum Non-Detect	230
Maximum Detect	11000	Maximum Non-Detect	2700
Variance Detects	3049081	Percent Non-Detects	32.77%
Mean Detects	1282	SD Detects	1746
Median Detects	755	CV Detects	1.363
Skewness Detects	3.821	Kurtosis Detects	17
Mean of Logged Detects	6.719	SD of Logged Detects	0.834

Normal GOF Test on Detects Only

Shapiro Wilk Test Statistic	0.553	**Normal GOF Test on Detected Observations Only**	
5% Shapiro Wilk P Value	0	Detected Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.294	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0991	Detected Data Not Normal at 5% Significance Level	

Detected Data Not Normal at 5% Significance Level

Kaplan-Meier (KM) Statistics using Normal Critical Values and other Nonparametric UCLs

KM Mean	941.7	KM Standard Error of Mean	138.9
KM SD	1505	95% KM (BCA) UCL	1178
95% KM (t) UCL	1172	95% KM (Percentile Bootstrap) UCL	1189
95% KM (z) UCL	1170	95% KM Bootstrap t UCL	1276
90% KM Chebyshev UCL	1358	95% KM Chebyshev UCL	1547
97.5% KM Chebyshev UCL	1809	99% KM Chebyshev UCL	2324

Gamma GOF Tests on Detected Observations Only

A-D Test Statistic	3.96	**Anderson-Darling GOF Test**	
5% A-D Critical Value	0.775	Detected Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.186	**Kolmogorov-Smirnov GOF**	
5% K-S Critical Value	0.102	Detected Data Not Gamma Distributed at 5% Significance Level	

Detected Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics on Detected Data Only

k hat (MLE)	1.287	k star (bias corrected MLE)	1.247
Theta hat (MLE)	995.8	Theta star (bias corrected MLE)	1028
nu hat (MLE)	205.9	nu star (bias corrected)	199.5
Mean (detects)	1282		

Gamma ROS Statistics using Imputed Non-Detects

GROS may not be used when data set has > 50% NDs with many tied observations at multiple DLs

GROS may not be used when kstar of detects is small such as <1.0, especially when the sample size is small (e.g., <15-20)

For such situations, GROS method may yield incorrect values of UCLs and BTVs

This is especially true when the sample size is small.

For gamma distributed detected data, BTVs and UCLs may be computed using gamma distribution on KM estimates

Minimum	0.01	Mean	861.8
Maximum	11000	Median	450
SD	1551	CV	1.8
k hat (MLE)	0.2	k star (bias corrected MLE)	0.2
Theta hat (MLE)	4311	Theta star (bias corrected MLE)	4299
nu hat (MLE)	47.58	nu star (bias corrected)	47.71
Adjusted Level of Significance (β)	0.048		
Approximate Chi Square Value (47.71, α)	32.86	Adjusted Chi Square Value (47.71, β)	32.71
95% Gamma Approximate UCL (use when n>=50)	1251	95% Gamma Adjusted UCL (use when n<50)	1257

Estimates of Gamma Parameters using KM Estimates

Mean (KM)	941.7	SD (KM)	1505
Variance (KM)	2264513	SE of Mean (KM)	138.9
k hat (KM)	0.392	k star (KM)	0.387
nu hat (KM)	93.21	nu star (KM)	92.19
theta hat (KM)	2405	theta star (KM)	2431
80% gamma percentile (KM)	1514	90% gamma percentile (KM)	2675
95% gamma percentile (KM)	3956	99% gamma percentile (KM)	7190

Gamma Kaplan-Meier (KM) Statistics

Approximate Chi Square Value (92.19, α)	71.05	Adjusted Chi Square Value (92.19, β)	70.82
95% Gamma Approximate KM-UCL (use when n>=50)	1222	95% Gamma Adjusted KM-UCL (use when n<50)	1226

Lognormal GOF Test on Detected Observations Only

Shapiro Wilk Approximate Test Statistic	0.916	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	1.6255E-5	Detected Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.104	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0991	Detected Data Not Lognormal at 5% Significance Level	

Detected Data Not Lognormal at 5% Significance Level

Lognormal ROS Statistics Using Imputed Non-Detects

Mean in Original Scale	908.6	Mean in Log Scale	6.109
SD in Original Scale	1527	SD in Log Scale	1.146
95% t UCL (assumes normality of ROS data)	1141	95% Percentile Bootstrap UCL	1154
95% BCA Bootstrap UCL	1229	95% Bootstrap t UCL	1254
95% H-UCL (Log ROS)	1114		

Statistics using KM estimates on Logged Data and Assuming Lognormal Distribution

KM Mean (logged)	6.311	KM Geo Mean	550.5
KM SD (logged)	0.903	95% Critical H Value (KM-Log)	2.135
KM Standard Error of Mean (logged)	0.0836	95% H-UCL (KM -Log)	988.3
KM SD (logged)	0.903	95% Critical H Value (KM-Log)	2.135
KM Standard Error of Mean (logged)	0.0836		

DL/2 Statistics

DL/2 Normal		**DL/2 Log-Transformed**	
Mean in Original Scale	917.1	Mean in Log Scale	6.145
SD in Original Scale	1526	SD in Log Scale	1.098
95% t UCL (Assumes normality)	1149	95% H-Stat UCL	1077

DL/2 is not a recommended method, provided for comparisons and historical reasons

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution at 5% Significance Level

Suggested UCL to Use

95% KM (Chebyshev) UCL 1547

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.

Recommendations are based upon data size, data distribution, and skewness.

These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).

However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

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Appendix F

Baseline Ecological Risk Assessment

Baseline Ecological Risk Assessment

Former Anocoil Corporation Facility

40 Brooklyn and 1 Court Streets
Rockville, Connecticut

September 2018

FUSS & O'NEILL

146 Hartford Road
Manchester, CT 06040

Project No. 2001454.P70

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Rockville, Connecticut

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Executive Summary

Anocoil Pond Ecological Risk Assessment
Vernon, Connecticut

This report presents the results of a Baseline Ecological Risk Assessment (BERA) for the Former Anocoil Corporation Facility located on the 40 Brooklyn Street and 1 Court Street parcels in Rockville, Connecticut (the "Site"; Figure 1). The purpose of this BERA is to evaluate the likelihood that adverse ecological effects may occur or are occurring within Anocoil Pond as a result of receptor exposure to contaminated sediments or surface water associated with historical activities and uses of the Site. The BERA was conducted in a manner consistent with the State of Connecticut Remediation Standard Regulations (RSRs) including the provisions for conducting ecological risk assessments as provided in the Regulations of Connecticut State Agencies (RCSA) Section 22a-134k-2(i).

Setting

Anocoil Pond is located in a historically industrial area and receives flow from the Hockanum River, which flows from Paper Mill Pond, under Route 31, and beneath the Former Amerbelle Mill Property before discharging to Anocoil Pond. The pond elevation is approximately 20 feet above improved portions of the Site. Therefore, the potential for releases or discharges to have reached the pond from current or former operations at the Site have been determined to be minimal to non-existent by the licensed environmental professional supervising the investigation and remediation of the Site. Conversely, upstream industrial facilities, including the former Amerbelle Corporation and Daniels Mill, have numerous reported releases of contaminants, including potential waste disposal directly to Anocoil Pond.

Constituents of Concern

As part of the ecological risk assessment process, the evaluation of the likelihood of adverse ecological effects is achieved by winnowing a list of contaminants of potential ecological concern (COPECs) from a greater list of contaminants of potential concern (COPCs). COPCs are those compounds that, through previous Site investigations, were identified as having been or having the potential to be released. COPECs, identified in this report, are those COPCs that, by comparison to numerical ecological screening levels (ESLs), merit further evaluation because they may pose a risk to ecological receptors. The principal COPECs identified in wetland soil/sediment and surface water testing were metals and semivolatile organic compounds (SVOCs).

Assessment Endpoints

Based on the objectives of this BERA three specific assessment endpoints were identified for the Site:

1. Survival, growth and reproduction of the benthic invertebrate community
2. Survival, growth and reproduction of aquatic organisms
3. Sustainability of upper trophic level populations

Each of the assessment endpoints was evaluated for Anocoil Pond as a whole and for the portion of Anocoil Pond located on the Site, as the eastern upstream portion of the pond is located on the adjacent parcels. The upstream Paper Mill Pond was also used as a site-specific background location (outside any groundwater, surface water, or sediment influence of the Site).

Evaluation of Risk

To identify whether a risk of ecological harm exists, a qualitative weight-of-evidence evaluation was applied. This evaluation is related to the assessment endpoints noted above and were used to evaluate whether significant risk of harm is posed to the environment. Results typical for a surface water body in an urban industrial area were identified as described below:

- Results of sediment analysis were used to predict risk of harm to the benthic macroinvertebrate community (assessment endpoint 1):
    - No risk of harm to the benthic invertebrate community was identified in the on-site portion of Anocoil Pond.
    - Risk of harm to the benthic community was identified for Anocoil Pond as a whole, and is driven by the results of the off-site samples. Concentrations of contaminants found in sediment were generally highest in background samples and samples collected from the off-site portion of Anocoil Pond.

- Results of surface water analysis were used to predict risk of harm to aquatic organisms (assessment endpoint 2):
    - Risk of harm to the aquatic invertebrate community was identified for both the on-site portion of Anocoil Pond and Anocoil Pond as a whole. This risk is primarily driven by detections of dissolved aluminum and barium and pyrene.

- To evaluate risks to upper trophic level species (assessment endpoint 3), doses associated with exposures to contaminated sediments and surface water were estimated for three wildlife receptor species: the American robin, short-tailed shrew, and red-tailed hawk:
    - Risk of harm to the American robin and short-tailed shrew evaluated exposure from sediments, surface water, and food items (invertebrates). Based on the relatively small home ranges of these species, Anocoil Pond was assumed to be 100 percent of their home range. Risk of harm to individuals of both the American robin and short-tailed shrew was identified.
    - Red-tailed hawk exposure is based on ingestion of smaller prey that was assumed to have been exposed to contaminants. Based on the large home range (1,035 acres) of the red-tailed hawk, prey exposed to COPECs in Anocoil Pond was only expected to comprise a tiny portion of their normal diet. No risk of harm was identified for the red-tailed hawk at Anocoil Pond.

Mitigating Factors

As is typical of waterbodies located in industrial areas, a risk of ecological harm has been identified in Anocoil Pond. Higher contaminant concentrations were typically identified in the upstream portion of the pond when compared to the portion of the pond present at the Site. Based on the following mitigating factors, additional investigation or abatement of sediment or surface water is not warranted:

- Negligible Risk to Species Populations: While risk of harm to some species may exist, the risk is limited to local or meta-populations and does not necessarily extend to the greater wildlife population. Instead, it is more likely that this would be a population "sink," meaning that individuals adversely affected by the elevated contaminant concentrations are replaced by other individuals of subsequent generations. Furthermore, the potential risk is not exclusive to the Anocoil Pond but is also associated with the background location. Because this risk is present in areas upstream of Anocoil Pond, a qualitative assessment indicates that the relative risk to upper trophic level populations associated with Anocoil Pond is negligible.

- Up Stream Conditions: Chemical analytical testing of on-site and off-site (upstream) sediments indicate that areas upstream of the Anocoil parcel generally contain higher concentrations of contaminants. Upstream sediments and related contaminants, as well as any upstream contaminated groundwater or surface water discharges, will continue to be sources of contamination until those sources are addressed, and any attempt to address existing sediment and surface water conditions at the Anocoil Pond would not be successful.

Conclusions

In summary, based on the upstream location of the pond on the Site, the elevation of the pond more than 20 feet above the elevation of where industrial activities were conducted at the Site, and a review of historical activities, no specific release mechanisms for pollutants to migrate to the pond from former Site processes have been identified, and the likelihood that former or current operations have contributed to pollutants to the pond is negligible. Based on this and the mitigating factors presented above, no additional investigation or remediation of Anocoil Pond is warranted.

1 Introduction

1.1 Purpose and Scope

Fuss & O'Neill was retained by the Rockville East Main Corporation to complete a Baseline Ecological Risk Assessment (BERA) for the Former Anocoil Corporation Facility on the 40 Brooklyn Street and 1 Court Street parcels in Rockville, Connecticut (the "Site"; Figure 1). The Site totals approximately 5.3 acres. Anocoil Pond, also known as American Mill Pond, an approximately one acre pond on the Hockanum River and located on the 40 Brooklyn Street parcel, was the primary subject of this assessment. Downstream of Anocoil Pond (impounded by the Hockanum Reservoir Dam), the Hockanum River enters a concrete conduit and flows underground for approximately ¼ mile. The majority of the rest of the Site is covered by buildings or pavement, and offers little to no natural habitat.

The Site has been operated by Anocoil, a manufacturer of anodized aluminum printing plates, since 1959. The Site has been occupied by industrial facilities since, or before, 1858 (HRP, 2015). Anocoil Pond is located behind a dam upstream of the Anocoil manufacturing facility at an elevation approximately 20 feet higher than the ground level of the current facility, which straddles the river downstream of the Anocoil Pond as it flows through a concrete culvert. A historical textile mill also straddled the river below the dam. The only known uses of the Anocoil Pond by Anocoil were for process and cooling water and possibly power generation. Preparation of this BERA is required by the Connecticut Department of Energy and Environmental Protection (DEEP) to fulfill site characterization obligations under Connecticut's Property Transfer Law.

The purpose of this BERA is to evaluate the likelihood that adverse ecological effects may occur or are occurring within Anocoil Pond as a result of receptor exposure to contaminated sediments or surface water associated with historical site activities and uses of the Site. The Hockanum River downstream of Anocoil Pond is channelized and flows underground, providing no natural habitat, and was therefore not assessed. The upland portion of the Site is almost entirely paved or covered by the Site building, offers negligible wildlife habitat, and was therefore not assessed as part of this BERA.

Previous investigations have identified that constituents of concern, including VOCs, SVOCs, ETPH, and metals are found in site soils and groundwater originating from the Site. Additionally, the November 2015 Remedial Action Plan written for the former Amerbelle property, located at the eastern (upstream) edge of Anocoil Pond, identified site-wide fill that was impacted by ETPH, PAHs, and metals (GZA, 2015b). Additionally, releases of fuel oil and VOCs were also identified at the former Amerbelle property.

As part of the ecological risk assessment process, the contaminants of potential ecological concern (COPECs) are winnowed from a longer list of contaminants of potential concern (COPCs). COPCs are those compounds that, through previous site investigations, were identified as having been released or having the potential to be released. COPECs identified in this report are those COPCs that, by comparison to numerical ecological screening criteria, merit further evaluation because they may pose a significant risk to ecological receptors.

The State of Connecticut Remediation Standard Regulations (RSRs) prescribe the required investigations and remediation activities at sites subject to DEEP regulatory remediation programs. Provision for conducting ecological risk assessments as provided in the Regulations of Connecticut State Agencies (RCSA) Section 22a-133k-2(i) is stated as follows: "…at any location at which… the Commissioner determines that there is a potential ecological risk he may require that an ecological risk assessment be conducted in accordance with…[the] February 1992 "Framework for Ecological Risk Assessment" and that additional remediation be conducted to mitigate any risks identified in such assessment…."

This ecological risk assessment was conducted in accordance with the 1998 U.S. Environmental Protection Agency (USEPA) guidance is "Guidelines for Ecological Risk Assessment" (USEPA/630/R-95/002F, 1998) and the 2015 "Considerations for Assessing Ecological Risks", as recommended by the DEEP. In addition, updates and other documents issued by the national or regional USEPA offices were used as guidance in consideration of quality assurance/quality control.

In portions of this report, we refer to the Connecticut Department of Energy and Environmental Protection (DEEP). The Connecticut Department of Environmental Protection (CTDEP) was re-named the Department of Energy and Environmental Protection (DEEP) in July 2011. For convenience and consistency, we refer to the agency as the DEEP throughout this report, including the timeframe prior to July 2011, except when citing references.

1.2 Site Description, History and Sources

The "Site" includes the 40 Brooklyn Street and 1 Court Street parcels (DEEP Remediation Numbers 12729, 12734) in a historically industrial zone of Vernon (Rockville), Connecticut (see Figure 1). This BERA focuses on the Anocoil Pond, which lies partially within the boundary of the 40 Brooklyn Street property, at the eastern (upstream) end of the Site.

The Anocoil Pond, also known as American Mill Pond, is an approximately one acre pond on the Hockanum River. The pond itself is characterized by steep slopes along the north, east, and south, and is located behind a dam upstream of the Anocoil manufacturing facility. The dam is approximately 20 feet higher than the ground level of the current facility, which straddles the river downstream of Anocoil Pond as it flows through a concrete culvert. A historical textile mill also straddled the river below the dam. The only known uses of the Anocoil Pond by Anocoil were for process and cooling water and possibly power generation.

Sited on the uplands adjacent to the upstream side of the Anocoil Pond are two former industrial facilities, Amerbelle (a former textile manufacturer) and Daniels Mill (a former textile mill and manufacturer of fire retardant paints and mastics). The Hockanum River flows under the Amerbelle facility and into the Anocoil Pond. The eastern edge of the Anocoil Pond lies on the former Amerbelle property, now owned by the Town of Vernon.

A Technical Memorandum completed by Fuss & O'Neill for the Anocoil Pond in October 2017 identifies the following known releases to the pond:

- A 1983 spill report submitted to the Connecticut Department of Energy and Environmental Protection (DEEP) indicated that barrels of chemicals were reportedly dumped into the deep area of the Anocoil Pond upstream of the sluiceway at Amerbelle. No other information was available.
- Four spills of more than ten gallons from the Amerbelle facility that impacted the Hockanum River have been documented:
    - January 1991 – 100 gallons of aqua ammonia was released from an aboveground tank.
    - April 1991 – An unspecified quantity of dye was released and impacted the river.
    - November 1992 – 100 gallons of No. 4 fuel oil were released and entered the river via a pipe.
    - May 1997 – 80 gallons of hydraulic oil were released and impacted the river.
- In December 1999, vandalism of two drums resulted in the release of 110 gallons of glue from 98 East Main Street (Daniels Mill).
- A tank fell through the floor of the Daniels Mill into the Anocoil Pond (date unknown). The tank was observed during drawdown of the Anocoil Pond in 2016 to facilitate work on the dam.

1.3 Nearby Properties

The surrounding land use is a mix of residential, commercial, and historically industrial properties. Land use adjacent to Anocoil Pond is summarized below.

Direction from Site	Adjoining Property
North	East Main Street parking lot for former Daniels Mill parcel
East & South	Former Amerbelle facility (textile manufacturing)
West	Former Anocoil facility

The Hockanum River flows through the former Amerbelle facility and discharges directly to Anocoil Pond. As a result, the former Amerbelle facility is a potential source of hazardous materials and petroleum products that could impact surface water and pond sediment quality at the Anocoil site.

1.4 Constituents of Potential Concern

Fuss & O'Neill reviewed available Site characterization documents for both the Site and the former Amerbelle Mill parcel to identify COPCs and develop a conceptual site model for ecological risk related to Anocoil Pond. The documents reviewed included the following reports that are also listed in the references in Section 10.

Date	Source	Details
December 1985	HRP Site Assessment Report	Mr. Cousans (Anocoil plant manager), interviewed by HRP, indicated that the Anocoil Pond had been used as a dumping area for a variety of materials (including drums, which appear to be the drums referenced in the 1983 spill report above) and that oil spills had occurred upstream of the Anocoil Pond. No dumping has been referenced as originating from the Anocoil property. HRP indicated that the Anocoil Pond sediments could potentially be contaminated and recommended sediment samples.
January 1986	HRP Pond Sediment Sampling and Analysis	Two sediment samples were collected from the bottom of Anocoil Pond and analyzed for VOCs and EP Tox cadmium, chromium, lead, and mercury: • P-1 (vicinity of suspected dumping) • P-2 (near the dam wall) Lead was detected at both locations. The EP Tox lead in sample P-2 (0.15 mg/L) was considered to be within drinking water standards. At P-1, the reported EP Tox concentration (1.75 mg/L) was considered to be hazardous based on DEEP guidelines at the time because it was 30x the drinking water standard. The source was unknown and hypothesized to be related to dumping, road runoff ("past studies" reporting lead associated with such runoff at 0.96 ppm were referenced), or a release at Amerbelle.
February 1986	HRP Additional Soil Sediment Sampling and Analysis	Three sediment samples were collected in an effort to identify the source of lead: • CBU-2 (catch basin on E/ Main, upgradient of the Anocoil Pond) • GC-1 (surficial soil composite adjacent to E. Main) • UP-1 (stream sediment upgradient of pond) Approximate sample locations are shown on Figure 2. Total lead was detected in all three samples. EP Tox lead was not detected in either of the upgradient samples. Lead was detected at GC-1 at 1.34 mg/L (EP Tox). The total lead reported at GC-1 was 434.9 ppm (compared to 24.9-85.7 ppm at the other locations).

Date	Source	Details
March 1986	HRP Sand Debris and Sediment Sampling and Analysis	Composite samples were collected from the Anocoil Pond and a pile of sand on the east (upstream) bank of the Anocoil Pond as follows: • A-1A (composite pond sediment analyzed for EP Tox metals) • A-B (composite pond sediment analyzed for EP Tox metals and VOCs) No metals or VOCs were detected in the Anocoil Pond sample(s). • A-2A (composite sand pile analyzed for EP Tox metals) • A-2B (composite sand pile analyzed for EP Tox metals and VOCs) Nickel was detected in the sand pile at 19.8 and 80.2 mg/L. HRP indicated that the DEEP considered nickel concentrations between 10 and 30 ppm to be contaminated and nickel concentrations over 30 ppm to be hazardous. HRP recommended additional delineation and disposal of the sand pile. The sand pile was referenced as being on the east bank of the Anocoil Pond, which suggests it may have originated from the Amerbelle property. There is no practically feasible way to transport material uphill from the Anocoil facility to the east side of the Anocoil Pond along the hillside. Inspections have identified debris that appeared to have originated from the Amerbelle facility above.
March 2015	HRP Phase I ESA	Previous investigations were discussed and Amerbelle was listed as a recognized environmental condition (REC) because of potential waste disposal to the river and Anocoil Pond.
July 2015	GZA Phase III Data Gap Assessment for Amerbelle	Investigations included sampling of Anocoil Pond (referred to in GZA's report as "American Mill Pond"). Three sediment samples were collected near the Anocoil Pond edge just below the Amerbelle facility. Background samples were also collected from the upstream Paper Mill Pond. PAHs were detected above benchmark screening levels in both ponds with the higher concentrations being detected at the upstream Paper Mill Pond. GZA concluded that the PAHs were likely from an upstream source. Cadmium, chromium, lead, and mercury were elevated in sediment from American Mill Pond compared to the upstream Paper Mill Pond. It was noted that the upstream results still represented an impact and GZA was not certain that the metals had not migrated from upstream locations because lead and mercury were not used in Amerbelle processes. GZA also referenced fill containing arsenic and lead at the Amerbelle site and annual flushing of the upstream Shenipsit Lake by the Connecticut Water Company as possible sources for metals in American Mill Pond. A screening level ecological risk assessment was recommended.

Date	Source	Details
November 2015	GZA Remedial Action Plan for Amerbelle	As a result of a Form III filed for the Amerbelle site on May 11, 2004 by the Town of Vernon, the Amerbelle site is subject to Connecticut's Property Transfer Law. The remedial action plan for the Amerbelle site stated that a baseline ecological risk assessment was needed to determine whether ecological receptors at the Anocoil Pond could have been impacted by historical discharges from the Amerbelle facility and/or other upstream sources of constituents of concern.

Based on previous investigations, constituents of concern associated with the Anocoil Site are listed below:

- Extractable total petroleum hydrocarbons (ETPH)
- Semivolatile organic compounds (SVOCs), primarily polycyclic aromatic hydrocarbons (PAHs)
- Metals – Based on waste manifests and process documentation, metals known to have been used at the Site during Anocoil's occupation include aluminum, chromium, lead, mercury, and nickel. Metals commonly associated with fill include arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc
- Volatile organic compounds (VOCs)

2 Problem Formulation

The purpose of the problem formulation is to describe the risk evaluation process. In this section, the appropriate ecological receptors and endpoints are identified, and a conceptual ecological site model (CESM) is developed that depicts the pathways through which the identified receptors may be exposed.

2.1 Environmental Setting

2.1.1 Geographic Setting

The northeastern, eastern, and southern edges of the Pond slope down steeply towards the pond. A dam is located at the western end of the pond. The Hockanum River flows in from the east, cascading over a bedrock outcrop beneath the Amerbelle facility into Anocoil Pond. The Hockanum River then flows over the dam, and enters an open, concrete channel approximately 80 feet long on the west side of the building before entering a closed concrete conduit, which flows beneath the Site and off-site parking lots for ¼ mile. Due to the steep slopes, there are no adjacent wetland areas to the pond. The Site is zoned historic district industrial (HD-I).

2.1.2 Surficial Geology

Surficial material at the site is mapped as thin till (DEEP, 2018). During Phase II operations, fill ranging from 1 to 20 feet thick was encountered over much of the Site. The fill was generally sandy with varying amounts of silt, gravel, brick, concrete, coal, ash, and miscellaneous debris (glass, plastic, ceramic, wood).

The Natural Resource Conservation Service indicates that soils adjacent to Anocoil Pond primarily consist of Urban Fill (USDA, 2018).

2.1.3 Bedrock Geology

Bedrock beneath the site is mapped as Glastonbury Gneiss, a gray, medium- to coarse-grained, massive to well-foliated granitic gneiss (Rodgers, 1985). Bedrock outcrops are visible adjacent to the pond on the eastern portion of the Site. During the 2015 Phase II Environmental Site Investigation (Fuss & O'Neill), drilling refusal on suspected bedrock was encountered at depths ranging from 5.5 to 12.5 feet. Near the main entrance on the northern edge of the Site, where the ground elevation is significantly higher, a soil boring was advanced to a depth of 20 feet without encountering refusal.

2.1.4 Hydrogeologic Conditions

2.1.4.1 Groundwater

The quality of groundwater beneath the Site is classified by DEEP as GB (DEEP, 2018). Such groundwater is presumed not to be suitable for human consumption without treatment and is used for industrial process water and cooling waters (DEEP, 2013). Depth to groundwater at the Site ranges from approximately 2.6 to 16.3 feet below grade. Groundwater flow is expected to flow to the west and be influenced by the Hockanum River, which flows through the Site (Fuss & O'Neill, 2015a).

2.1.4.2 Surface Water

The nearest surface water body is the Hockanum River, which flows through the Site. The Hockanum River is classified by the DEEP as Class B (DEEP, 2018). Designated uses of such inland surface waters are for recreational use, fish and wildlife habitat, agricultural and industrial supply and other legitimate uses including navigation (DEEP, 2013).

Both DEEP and the United States Geological Survey (USGS) have identified Anocoil Pond and the Hockanum River as an impaired waterway due to historical industrial use and urban setting (GZA, 2015b).

2.1.5 Wetlands and Watercourses

The Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map database (FEMA, 1999) shows mapped floodplains associated with the Hockanum River and Anocoil Pond. These areas are designated "AE", area of 100-year flood; base flood elevations determined.

Anocoil Pond is mapped as a palustrine, unconsolidated bottom, permanently flooded, excavated (PUBHx) water body by the United States Fish and Wildlife Service (USFWS) National Wetlands Inventory. The Hockanum River flowing from Anocoil Pond and into the conduit beneath the Former Anocoil Facility is mapped as riverine, intermittent, streambed, seasonally flooded (R4SBC) (USFWS, 2012).

No wetland soils are mapped by the CT DEEP in the vicinity of the Anocoil Pond or Former Anocoil Facility (CTDEP, 2009).

2.1.6 State Listed Species

Natural Diversity Database (NDDB) mapping was reviewed to determine if any endangered, threatened or special concern species have been observed on or in the vicinity of the Site. No NDDB areas currently exist in the vicinity of Anocoil Pond (DEEP, 2018).

2.2 Conceptual Ecological Site Model

The conceptual ecological site model (CESM) is the foundation for an assessment of ecological risk. It specifies the pathways by which ecological receptors may be exposed to chemical stressors on, or originating from, the Site. As described below, the CESM includes a graphical depiction of the potential exposure pathways (e.g., relevant inputs, entities, habitats, exposure routes, and processes).

The three critical components of an ecological risk assessment and its associated CESM are the sources (stressors), endpoints (receptors), and processes (exposure pathways). A graphical representation of the CESM of aquatic (including wetlands) systems is provided in Figure 3.

2.2.1 Sources – Contaminant Fate and Transport

The COPCs are transferred from the source to a primary media, specifically groundwater and subsurface soil, by processes including absorption and adsorption to subsurface soil, and percolation and leaching to groundwater. COPCs adsorbed or absorbed to subsurface soils are not directly accessible to ecological receptors. Typically, soils to a depth of two feet are considered a direct exposure pathway to plants and animals. COPCs may be leached (dissolved into) or percolated (carried on a colloidal form) into groundwater as a primary media pathway from the facility or may be adsorbed or absorbed to subsurface soils as a secondary media pathway.

Sources of contaminants discharging to Anocoil Pond include the former Amerbelle Mill located at the eastern edge of the pond, other upstream industrial activities, stormwater outfall discharges, and overland runoff. Groundwater flow direction at the Site is expected to be toward the west (Fuss & O'Neill, 2015b). Any groundwater discharging to Anocoil Pond likely originates from off-site. Sediment pore water, wetland soil/sediment and surface water become the final (secondary or tertiary) media

pathways. At these final media pathways, exposure to COPCs by ecological receptors is most likely to occur.

2.2.2 Endpoints – Ecological Receptors

The upstream Paper Mill Pond was used as a background reference to conditions within Anocoil Pond. Paper Mill Pond is located upstream of the former Amerbelle and Daniels Mills and Route 31. Anocoil Pond was considered in two sections: the upstream, off-site portion of the pond, and the on-site portion of the pond. For this assessment, one sediment and one surface water sample was collected from Paper Mill Pond and three sediment and three surface water samples were collected from Anocoil Pond on the former Anocoil property. Samples collected in 2015 from both Anocoil Pond and Paper Mill Pond as part of an assessment for the former Amerbelle property were used as part of this assessment.

Ecological receptors for the conceptual model were identified for semi-aquatic (i.e. wetland) systems based on field surveys conducted to date. Each receptor is associated with a particular organism. The receptors and associated organisms used to assess the Site are listed in the table below. An evaluation of the existing habitats and incidental observations of various wildlife species at the Site allow us to presume what receptors may be present on-site and what species may be representative of those receptors as provided in the chart below.

Ecological Receptors and Representative Organisms

Ecological Receptor	Representative Organism
Wetland Sediment Invertebrates	Earthworms/Amphipods
Reptiles	Eastern Painted Turtle (*Chrysemys picta picta*)
Amphibians	Bullfrog (*Rana catesbeiana*)
Insectivorous Mammals	Short-tailed Shrew (*Blarinia brevicauda*)
Insectivorous Songbird	American Robin (*Turdus migratorius*)
Predatory Birds	Red-tailed Hawk (*Buteo jamaicensis*)
Piscivorous Birds	Belted Kingfisher (*Megaceryle alcyon*)

2.2.3 Processes – Exposure Pathways

The third component of the CESM consists of the processes (or exposure pathways) by which the stressor(s) reach the receptors. Two primary exposure pathways were identified for both the wetland and aquatic systems: direct contact and ingestion. Not all receptors, however, are subject to either or both exposure pathways. Each exposure pathway was identified as complete or incomplete. A complete pathway is the means by which a chemical is successfully transported from a source to a receptor in such a way that the receptor can be affected by that chemical. A pathway is incomplete if there is no feasible manner of transport from the source to a receptor (e.g., physical barriers, unlikely mode of exposure, etc).

If a complete pathway was identified then the relative importance of that pathway was determined to be either significant or minor. Significant, complete exposure pathways are those where a clear and

unimpeded exposure pathway exists. Minor, complete exposure pathways are those where the potential for exposure exists, but there is an impediment that substantially minimizes exposure. The distinction between a major and minor exposure pathway is evaluated for each receptor and considers the habits and habitat requirements of that receptor in relation to the potential stressor.

2.2.3.1 Significant, Complete Exposure Pathways

As summarized in Figure 3, sediment invertebrates, reptiles, and amphibians are the receptors for which a significant, complete exposure pathway is present vis-à-vis direct contact and/or ingestion of contaminated media – sediment, sediment pore water, and surface water receiving groundwater recharge. In addition, a significant, complete exposure pathway was identified for all upper trophic receptors vis-à-vis the food chain (i.e. wetland/aquatic food items).

Direct Contact/Ingestion

Invertebrates are generally at the highest risk as they are relatively immobile and can be affected by elevated, localized concentrations of COPCs. In addition, invertebrates are the most likely point within the food chain where certain compounds may begin to bioaccumulate.

Reptiles and amphibians are also at risk, albeit to a lesser extent than invertebrates. Groundwater discharging to surface water and the subsequent ingestion of and direct contact with surface water is the primary pathway by which reptiles and amphibians may be exposed to COPCs. These species, however, are mobile; therefore, the duration of exposure is substantially reduced compared to invertebrates.

Insectivorous mammals are also at risk for direct contact and ingestion of surface water. These mammals have high metabolic rates and can consume approximately their body weight in food each day. In addition, their high metabolism requires significant consumption of water. As a result, certain compounds may substantially bioaccumulate in insectivorous mammals.

Food Chain

Significant, complete exposure pathways were identified for all upper trophic receptors (i.e. reptiles, amphibians, insectivorous songbirds, insectivorous mammals, predatory birds, and piscivorous birds) by way of the food chain. This conclusion was reached largely because COPCs initially identified include certain metals and SVOCs that may bioaccumulate. We have conservatively assumed that these metals and SVOCs are all bioavailable and are in such forms that can bioaccumulate. Laboratory analytical reports provided in Appendix A and B are summarized in Section 5.

2.2.3.2 Minor, Complete Exposure Pathways

Several ecological receptors were identified as being potentially affected by stressors through minor, complete exposure pathways:

- Insectivorous mammals largely forage on exposed soil or sediment, and therefore are exposed to sediment porewater and/or sediment by direct contact, which is considered minor, complete exposure pathway for these receptors.

- Insectivorous songbirds may forage on exposed soil or sediment, and therefore are exposed to sediment porewater, sediment and/or surface water by ingestion and direct contact, which are considered minor, complete exposure pathways for these receptors.

- Piscivorous birds largely forage on wetland/aquatic food items, and therefore are exposed to surface water by direct contact, which is considered a minor, complete exposure pathway.

2.3 Selection of Assessment Endpoints

As defined by USEPA (1992), assessment endpoints are explicit statements of the ecological system that are to be protected. Based on the CESM of the Site, we have established specific and relevant assessment endpoints. Assessment endpoints play an essential role in the risk assessment and form a central nexus between the conceptual model and the risk characterization. Therefore, these endpoints were specifically selected for and representative of the ecological conditions at the Site.

Assessment endpoints at the Site were evaluated against five criteria: unambiguous operational definition; ecological relevance; accessibility to prediction and measurement; susceptibility to known or potential stressors; and relevance to management goals. These five criteria are defined as:

Unambiguous Operational Definition – The endpoints include an ecological entity (i.e., individual, population, subpopulation, community or habitat) and a measurable effect (i.e., toxicity, reproductive success, diversity).

Susceptibility to Known or Potential Stressors – Endpoints were selected based on their susceptibility to a contaminant (e.g. complete exposure pathways) and/or the organism's sensitivity to the contaminant (i.e., bioaccumulation or bioconcentration of COPCs).

Ecological Relevance – The endpoints were selected based on populations, subpopulations, or communities of organisms that are realistically expected to inhabit the Site.

Accessibility to Prediction and Measurement – Each endpoint could be measured or reliably predicted from surrogate measurements.

Relevance to Management Goals – Endpoints have clear and real ecological value in light of the management goals of the Site.

Based on the objectives of this evaluation (i.e., to evaluate potential risks associated with exposure to sediments or soil) and the CESM developed in Section 2.2, the three specific assessment endpoints identified for the Site are:

1. Survival, growth and reproduction of the benthic invertebrate community (i.e. amphipods)
2. Survival, growth and reproduction of aquatic organisms (i.e. fish)
3. Sustainability of upper trophic level populations (i.e. reptiles, amphibians, insectivorous songbirds, insectivorous mammals, predatory birds, piscivorous birds)

2.4 Selection of Measurement Endpoints

Measurement endpoints represent quantifiable ecological characteristics that can be measured, interpreted, and related to the valued ecological components chosen as assessment endpoints. General considerations for selecting assessment and measurement endpoints include ecological relevance, policy goals and societal values, and susceptibility to chemical stressors (USEPA, 1992; 1998). Measurement endpoints were identified for each of the assessment endpoints identified in Section 2.3. The measurement endpoints selected were evaluated against the following attribute criteria:

Correlation of the Measurement and Assessment Endpoint – The extent to which the measurement endpoint is representative of, correlated with, or applicable to the assessment endpoint. If there is no association between a measurement endpoint (e.g., a study that may have been performed for some other purpose) and the assessment endpoint of interest, then that study is poorly suited to evaluate the stated assessment endpoint.

Correlation of Stressor to Response – The degree to which a correlation is observed between levels of exposure to a stressor and levels of response and the strength of that correlation.

Sensitivity of the Measurement Endpoint – The ability to detect a response in the measurement endpoint.

Utility of the Measure for Judging Environmental Harm – The ability to judge results against well-accepted standards, criteria, or objective measures.

Site Specificity – This attribute relates to the extent to which data, media, species, environmental conditions, and habitat types used in the study design reflect the study Site.

Stressor Specificity – This attribute relates to the degree to which the measure of effect is associated with a stressor(s).

Use of a Standard Method – This attribute relates to the extent to which the study follows specific protocols recommended by a recognized scientific or regulatory authority.

Quantitativeness – This attribute relates to the degree to which numbers can be used to describe the magnitude of response of the measurement endpoint to the stressor. Some measures may yield qualitative or hierarchical results while others may yield more quantitative values.

A qualitative evaluation of the measurement endpoints was performed to determine the degree to which the measurement endpoints meet the evaluation criteria for the assessment endpoints. The qualitative degrees of evaluation (high, moderate, and low) are levels of strength or confidence assigned to each measurement endpoint for each criteria. Table 3 summarizes the qualitative evaluation and rationale of the measurement endpoints relative to the evaluation criteria.

Each of the measurement endpoints introduces an unquantifiable level of uncertainty into the process of relating exposure concentrations to the magnitude of effects. Uncertainty is addressed further in Section 8.

2.4.1 Assessment Endpoint 1 – Survival, Growth, and Reproduction of the Benthic Invertebrate Community

Sediment concentrations of COPECs were compared to ecological screening criteria in order to assess the "survival, growth, and reproduction of the benthic invertebrate community" measurement endpoint. In addition, PAH mixtures were evaluated to further evaluate which PAH mixtures may prove to be toxic to the surrounding benthic organisms. Based on the qualitative evaluation of the measurement endpoints (Table 3-1), the strength of Measurement Endpoint 1 is considered moderate.

2.4.1.1 Measurement Endpoint 1a –Bulk Sediment Chemistry

Sediment samples were collected in April 2015 by GZA as part of the November 2015 Revised Remedial Action Plan for the Former Amerbelle Property (2015b). Three sediment samples were collected from Paper Mill Pond, upstream of the Site, and three samples were collected from Anocoil Pond on the former Amerbelle property, east of the Site. Samples were analyzed for metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) and SVOCs.

As part of this ecological assessment, Fuss & O'Neill collected one sediment sample from Paper Mill Pond (background) and three sediment samples from Anocoil Pond (on-site) in August 2017. Samples were analyzed for metals (aluminum, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc), ETPH, VOCs, and SVOCs.

Results of the analyses indicated that the COPECs for the Site consisted of metals and SVOCs. These data were compared to current freshwater sediment quality guidelines (SQG) to determine if exposures to sediment concentrations have the potential to adversely impact benthic communities. The application of SQG is discussed further in Section 3.2.1; a summary of SQG for the COPECs is provided in Table 2; sediment data is summarized in Table 4.

2.4.1.2 Measurement Endpoints 1b – Evaluation of PAH Mixtures

Mixtures were evaluated using USEPA's Procedures for the Derivation of Equilibrium Partitioning Sediment Guidelines (ESBs) for the Protection of Benthic Organisms: PAH mixtures (USEPA, 2003c) which evaluate whether or not the relevant PAH mixtures may prove toxic to surrounding benthic organisms. These methods of evaluation are based on equilibrium partitioning (EqP) and narcosis theories discussed in guidance from USEPA (2003c) and described further in Section 4.1 and Section 5.1. A summary of the PAH modeling is provided in Table 22.

2.4.2 Assessment Endpoint 2 – Survival, Growth, and Reproduction of Aquatic Organisms

Surface water concentrations of COPECs were compared to ecological screening criteria in order to assess the "survival, growth, and reproduction of aquatic organisms" measurement endpoint. Based on the qualitative evaluation of the measurement endpoint (Table 3-2), the strength of Measurement Endpoint 2 is considered moderate.

Surface water samples were collected in April 2015 by GZA as part of the November 2015 Revised Remedial Action Plan for the Former Amerbelle Property (2015b). Three surface water samples were collected from Paper Mill Pond, upstream of the Site, and three samples were collected from Anocoil Pond on the Amerbelle property, east of the Site. Samples were analyzed for total metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver) and SVOCs.

As part of this ecological assessment, Fuss & O'Neill collected one surface water sample from Paper Mill Pond (background) and three samples from Anocoil Pond (on-site) in August 2017. Samples were analyzed for total and dissolved metals (aluminum, arsenic, barium, cadmium, chromium, copper, lead, mercury, nickel, selenium, silver, and zinc), ETPH, VOCs, and SVOCs.

Results of the analyses were compared to current freshwater quality criteria (WQC) to determine if exposures to surface water concentrations have the potential to adversely impact the aquatic community. Dissolved aluminum and barium, and four PAHs were identified in one or more samples at concentrations that exceed the WQC. The application of WQC is discussed further in Section 3.2; a summary of WQC for the COPECs is provided in Table 2; water quality data is summarized in Table 6.

2.4.3 Assessment Endpoint 3 – Sustainability of Upper Trophic Level Populations

For the assessment endpoint "sustainability of upper trophic level populations," potential risks to upper trophic level receptors were evaluated by calculating estimates of exposure (i.e., dose) to COPEC. Doses were calculated using standard risk equations quantifying the exposures from consumption of prey

items, incidental ingestion of sediment and soils, and ingestion of Site water. Based on the CESM, three receptor types were selected:

3a. Insectivorous Songbirds
3b. Insectivorous Mammal
3c. Predatory Birds
3d. Piscivorous Birds

These receptors are represented by the American robin, short-tailed shrew, red-tailed hawk, and belted kingfisher, respectively. These species are all known or assumed to exist on or utilize all or a portion of the Site and are assumed to be exposed to contaminated sediments and/or soils through the complete exposure pathways depicted in Figure 3. Based on the qualitative evaluation of the measurement endpoints (Table 3-3), the strength of Measurement Endpoints 3a through 3d are considered moderate.

2.5 Weight of Evidence Approach

To identify whether a risk of ecological harm exists, a qualitative weight-of-evidence evaluation was applied. Weight-of-evidence is a process by which multiple lines of evidence, expressed as measurement endpoints, are related to assessment endpoints to evaluate whether significant risk of harm is posed to the environment (Bettinger et al., 1995). The approach used for this evaluation was an adaptation of that proposed by Bettinger et al. (1995) and focused on the assessment and measurement endpoints identified below using the data described in Section 3 and Section 5.

As defined by the USEPA (1992), assessment endpoints are explicit statements of the ecological system that are to be protected. For example, species richness and abundance of the fish community or other valuable resources may be evaluated as assessment endpoints. Assessment endpoints may be measured either directly or indirectly. Measurement endpoints represent quantifiable ecological characteristics that can be measured, interpreted, and related to the valued ecological components chosen as assessment endpoints. General considerations for selecting assessment and measurement endpoints include ecological relevance, policy goals and societal values, and susceptibility to chemical stressors (USEPA, 1992; 1998a). Multiple measurement endpoints may be employed for each assessment endpoint.

To execute the weight-of-evidence approach, three factors were defined:

1. Weight – Strength of the measurement endpoint
2. Risk of Harm– The "risk" versus "no risk" outcome of the measurement endpoint
3. Confidence – Definitiveness or confidence of the risk or no risk outcome

Each measurement endpoint identified for each assessment endpoint requires a qualitative evaluation. This qualitative evaluation determines the degree to which a given measurement endpoint meets the evaluation criteria (i.e., ecological relevance, policy goals and societal values) for the assessment endpoints. The qualitative degrees of evaluation (e.g., high, moderate, and low) are levels of strength or confidence assigned to each measurement endpoint for each criterion.

The outcome of each measurement endpoint was evaluated as to whether or not a risk of ecological harm exists or if a risk of harm cannot be determined. An affirmative or negative qualitative (e.g., yes or no) value was assigned to that measurement endpoint.

The outcome of each measurement endpoint was also evaluated with regard to the confidence of risk. The confidence was characterized as low or high. When evaluating confidence of risk, area, and connectivity of a given area of concern were considered. This is largely because of the variability inherent in communities across separate and distinct habitats. In addition, the mobility of higher level organisms (e.g., mammals and birds) does not lend itself to the assumption that those organisms dwell in a single location around a sediment sample location, but rather are limited by habitat quality, size and physical impediments.

Finally, for each assessment endpoint, all measurement endpoints were pooled, integrating the weight, response and magnitude of the measurement endpoint. For ease of representation, each measurement endpoint was assigned an alphanumerical value and plotted on a matrix (example provided below). The matrix is considered a plane where the center of the matrix is the fulcrum and each alphanumeric value (e.g., A, B, C, etc) is weight that tilts the plane "toward" or "away" from the indication of risk. To further facilitate the characterization of risk, each cell within the matrix is assigned a semi-quantitative numerical value based on the weight (1 to 3), risk of harm (+ or -), and magnitude of harm (1 or 2). Once the alphanumeric values are assigned to cells in the matrix, the semi-quantitative numerical values are summed. If the sum of the numerical values is positive, then "risk" is concluded. If the sum of the numerical values is negative, then no significant risk (no risk) is concluded. If the sum is zero, there is insufficient data to reasonably conclude "risk" or "no risk."

Risk of Harm	Magnitude	Low Weight (1)	Moderate Weight (2)	High Weight (3)
Yes (+)	High (2)	+2	+4	+6
	Low (1)	+1	+2	+3
Undetermined		0	*	0
No (-)	Low (1)	-1	-2	-3
	High (2)	-2	-4	-6

3 Media Screening

The initial objective of this BERA is to determine the potential for ecological risk by identifying COPECs. This process helps determine if the COPCs present at the Site pose a potential risk of harm to ecological receptors. An effects assessment identifies whether ecological effects or risk have existed, or have the potential to exist, for given receptors exposed to selected media. The effects assessment was completed in two parts: (1) identification of readily apparent harm and (2) effects-based ecological screening.

3.1 Screening Level Problem Formulation

Readily apparent harm establishes that there is a clear, ecological impairment, an ecological risk assessment would be unnecessary, and remediation would invariably be required. The possibility that readily apparent harm exists at the Site was evaluated during site visits and sampling efforts.

Land use in the immediate vicinity of Anocoil Pond has historically been industrial, with Amerbelle and Daniels Mills sitting at the eastern (upstream) end of the pond. Land use upstream of Paper Mill Pond (background location) is a mix of residential, agricultural, and forested.

The need for further ecological risk assessment activities would be unnecessary if the existence of readily apparent harm from chemical stressors was observed. However, the habitats present around Anocoil Pond do not exhibit readily apparent harm as a result of the release of chemical stressors; therefore, a closer examination of the potential risk posed by historical chemical releases to the pond is merited.

3.2 Selection of Ecological Screening Levels

The complete exposure pathways identified in the CESM (Figure 3) were evaluated using an effects-based screening procedure. Concentrations of constituents detected in sediment and surface water at the Site were compared against published ecological screening levels (ESLs) or benchmarks. Effects-based screening levels are conservative concentrations below which ecological effects are unlikely to occur. For sediment these ESLs are typically referred to globally as Sediment Quality Guidelines (SQG); for surface water they are referred to globally as Water Quality Criteria (WQC). Table 2 provides the ESLs identified and used in this BERA.

3.2.1 Sediment Ecological Screening Levels

Wetland soil/sediment quality is affected by groundwater discharge. Ecological receptors are most likely exposed directly (via ingestion or direct contact) or indirectly (via food chain) to COPCs in wetland soil/sediments. The following sources, in order of preference, were referenced to generate a list of SQG for wetland sediment at the Site:

- USEPA Region 4 Freshwater Sediment Screening Values (USEPA, 2018b)
- USEPA Region 3 Freshwater Sediment Screening Benchmarks (USEPA, 2006)

The USEPA Region 4 freshwater sediment screening benchmarks (2018) were used as the primary reference for sediment ESLs. In the case that screening benchmarks were not available from the Region 4 criteria, the Region 3 Freshwater Sediment Screening Benchmarks were used. The source of each SQG used for screening is provided in Table 2.

3.2.2 Surface Water Ecological Screening Levels

Surface water quality can also be affected by groundwater discharge. Ecological receptors are most likely exposed directly (via ingestion or direct contact) or indirectly (via food chain) to COPCs. The following sources, in order of preference, were referenced to generate a list of WQC for surface water the Site:

- DEEP Numerical Water Quality Criteria (DEEP, 2013)
- USEPA National Aquatic Life Criteria (USEPA, 2018a)
- USEPA Region 4 Freshwater Sediment Screening Values (USEPA, 2018b)
- USEPA Region 5 Ecological Screening Levels (USEPA, 2003b)
- DEEP/CTDOH Extractable Petroleum Hydrocarbon Fractions Using the ETPH Analytical Method and Criteria Development (CTDEEP/CTDPH, 2012)

The DEEP Numerical Water Quality Criteria (DEEP WQC) were the initial source for ESLs for this BERA. However, the DEEP WQC provided a limited list of screening values – specifically for metals. As such, additional sources were identified and used to obtain a complete list of WQC for screening purposes. It is important to note that WQC for most of the metals analyzed during this investigation are provided in both the dissolved and total fraction. The source of each WQC used for screening is provided in Table 2.

3.3 Sampling & Analysis

Six sediment samples (GZA SED -1 to SED-6) and six surface water samples (GZA SW-1 to SW-6) were collected on April 22, 2015 as part of the Remedial Action Plan at the former Amerbelle facility located at the upstream end of Anocoil Pond. Sediment samples were analyzed for select metals, SVOCs, and total organic carbon. Surface water samples were analyzed for select total metals, SVOCs, and hardness (GZA, 2015b).

Four sediment samples (SED-01 to SED-04) and four surface water samples (SW-01 to SW-04) were collected on August 3, 2017 for use with this BERA. Sediment samples were analyzed for select metals, SVOCs, VOCs, ETPH, pH, and total organic carbon. Surface water samples were analyzed for total and dissolved metals, SVOCs, VOCs, ETPH, pH, specific conductivity, hardness, alkalinity, and total organic carbon. Sample locations are shown in Figure 2.

A complete table of the constituents that were analyzed in 2017 and the reporting limits requested from the laboratories is provided in Table 1 and Table 2. The 2017 samples were collected in accordance with the March 2015 Considerations for Assessing Ecological Risks (USEPA, 2015). Sediment samples were collected from 0 to 6 inches below sediment surface using a dedicated plastic scoop. Surface water samples were collected using a dedicated plastic surface water scoop.

3.4 Method for Identification of COPECs

The COPEC selection process occurs for those COPCs that are likely to be Site-related as a result of historical Site activities and have the potential to pose a risk of harm to ecological receptors. The potential risk of harm was evaluated based on a process of comparing concentrations of potentially Site-related COPCs to available ecological screening levels.

3.4.1 Ecological Screening Levels

The potential risk of harm for identified COPECs was based on a process of comparing concentrations of potentially Site-related, detected COPECs to local background conditions (background) as well as to published ecological screening criteria. The identified COPECs for each medium (surface water and sediment) were further assessed based on the following process:

1. Calculate the Mean, Median and Maximum for each COPC
2. Evaluate the detection frequency of COPEC
3. Compare COPEC to ecological screening criteria
4. Compare COPEC to local background conditions

A given chemical was retained as a COPEC if the maximum concentration exceeded the ecological screening criteria. Additionally, to further facilitate the COPEC identification process, hazard quotients (HQ) were calculated for each COPC at each sampling location. The HQ is a ratio, which can be used to determine if risk of harmful effects related to the contaminant in question is likely. The HQ is calculated using the following equation:

$$HQ = \text{COPC Concentration} / \text{ESL}$$

Where COPCs were reported as non-detects, an HQ was calculated using the reported detection limit. After calculating the HQ, the following evaluation is made:

- If HQ < 1.0, then harmful effects are unlikely
- If HQ = 1.0, then contaminant alone is not likely to cause ecological risk
- If HQ > 1.0, then harmful effects are probable due to the contaminant in question

If an HQ is calculated to be equal or greater than 1.0 for a particular COPC, that contaminant is then referred to as a COPEC. The USEPA has not recognized any official means of evaluating the size of the results of these calculations, only whether or not the HQ exceeds 1.0.

3.4.2 Bioaccumulating and Bioconcentrating Compounds

The USEPA (2000) developed a list of potentially bioaccumulative compounds based on input from technical practitioners and a review of various agency documents. Such chemicals have been observed at

other locations in sediments and in animal tissues at levels associated with toxic effects. Lower concentrations of certain COPCs that, in some cases, do not nominally exceed an ESL may result in long-term adverse ecological effects because of their bioaccumulative properties. As such, these compounds are automatically retained as COPECs through the screening level. Additional investigation into the nature and biogeochemical properties of these compounds or detailed body burden analysis is required to determine the actual nature and extent of risk to ecological receptors.

3.5 Identification of COPECs

COPECs were identified for sediment and surface waters. Summary tables as well as HQ tables are provided for detected COPCs in sediment and surface water. A given chemical was retained as a COPEC if one of the following conditions was met:

- If the maximum concentration exceeded the ecological screening criteria, or
- If a COPC was detected and was a known bioaccumulating or bioconcentrating contaminant.

A given chemical was not retained as a COPEC if it met one of the following conditions:

- If the maximum concentration did not exceed the applicable ecological screening criteria, or
- If the COPC is an essential micro- or macro-nutrient.

Complete laboratory data results are provided in Appendix A and B.

3.5.1 Sediment Screening

SQG have been compiled for the purpose of predicting the potential toxicity of contaminated sediments. The goal of SQG is to provide an estimate of chemical concentrations in sediment that are not likely to be associated with an adverse effect. Most SQG have been developed for individual chemicals measured on a dry weight basis; however, there are a variety of limitations associated with this approach. For example, dry weight measurements do not account for numerous chemical and physical factors (e.g., total organic carbon, grain size, etc.) that may affect the bioavailability of contaminants in sediment. In addition, SQG for individual chemicals do not account for the potential effects of chemical mixtures. The results and comparison of COPCs to SQG are provided in Table 4.

For the purpose of further evaluating individual chemical concentrations, Threshold Effect and Probable Effect Concentrations (TEC and PEC, respectively) developed by MacDonald et al. (2000) were considered. These values were developed based on a review of existing SQG using a consensus-based approach. The TEC represents the concentration below which adverse effects are not expected to occur, while exceedance of the PEC is assumed to indicate the potential for adverse effects to benthic organisms for many chemicals. It is generally accepted that, as a screening tool in the SLERA, the TEC are overly conservative for the protection of ecological receptors; whereas the PEC are more accurate while still providing a conservative estimate of potential risk of ecological harm and are used in the BERA. HQs for each COPC are provided in Table 5a and 5b, comparing against TEC (or equivalent) and PEC, respectively.

Seven metals and 16 SVOCs exceeded screening values in one or more sediment samples collected within Anocoil Pond and have been identified as COPECs. These metals include barium, cadmium, chromium, copper, lead, mercury, and zinc. These metals are also retained as COPECs since most are considered bioaccumulative compounds. All PAHs considered to be bioaccumulative compounds were retained as COPECs: benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, benzo(k)fluoranthene, chrysene, dibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, and pyrene.

For all metals that exceeded the applicable SQG (barium, cadmium, chromium, copper, lead, mercury, and zinc), concentrations were highest in Anocoil Pond. Concentrations of copper and zinc were highest on the Anocoil parcel; however, these metals were not analyzed during the 2015 sediment sampling effort. Concentrations of barium, copper, lead, and mercury exceeded the SQG in the background samples.

While concentrations of most PAHs exceeded the applicable SQG throughout the sampling area, concentrations were highest for all PAHs in Paper Mill Pond (background samples). The SVOC bis(2-ehtylhexyl)phthalate was found at the highest concentration in Anocoil Pond, on the former Amerbelle property.

3.5.2 Surface Water Screening

Surface water quality was considered in the evaluation for protection of aquatic organisms. For the purpose of evaluating individual chemical concentrations, freshwater aquatic life criteria published as Table 3: Numerical Water Quality Criteria for Chemical Constituents by the DEEP (2013) were used. In the absence of DEEP WQC, USEPA National Aquatic Life Criteria (2018), ecological screening level criteria prepared by USEPA Region 4 (2018) and Region 5 (2003) were considered. The DEEP/CTDOH criteria for extractable total petroleum hydrocarbon was also used (CTDEEP/CTDPH, 2012). The results and comparison of COPCs to WQC are provided in Table 6.

Results of HQ evaluations for each COPC are provided in Table 7.

The 2015 sampling effort analyzed surface water samples for select total metals and SVOCs. No metals or SVOCs were detected above laboratory reporting limits. However, laboratory reporting limits for silver, anthracene, benzo(a)anthracene, benzo(ghi)anthracene, and indeno(1,2,3-cd)pyrene exceeded the applicable WQC. Silver, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene are considered bioaccumulative compounds.

Samples collected during the 2017 sampling effort were analyzed for total and dissolved metals, SVOCs, ETPH, and VOCs. Total aluminum, total lead, and dissolved aluminum exceeded the applicable WQC for samples collected within Anocoil Pond on the Anocoil parcel. Dissolved barium was detected below the WQC at a similar concentration to those found in Anocoil Pond at the Paper Mill Pond (background) location. Although not detected, laboratory reporting limits for total cadmium, selenium, and silver, and dissolved cadmium, copper, and lead exceeded the WQC. These constituents are considered bioaccumulative compounds.

In addition, samples collected from Anocoil Pond on the Anocoil parcel (2017) exceeded the WQC for benzo(a)pyrene, benzo(k)fluoranthene,and indeno(1,2,3-cd)pyrene.. All three of these parameters are considered bioaccumulative compounds. Laboratory reporting limits for benzo(ghi)perylene and indeno(1,2,3-cd)pyrene exceeded the WQC.

4 Effects Assessment

The ecological health of the project area can be assessed through three separate lines of evidence (assessment endpoints), which include: the benthic macroinvertebrate community, the aquatic community, and higher trophic level species. The following sections further discuss these assessment endpoints.

4.1 Assessment Endpoint 1

The health of the benthic macroinvertebrate community can be assessed through lines of evidence (measurement endpoints). This BERA considers one line of evidence: bulk sediment chemistry.

4.1.1 Bulk Sediment (Measurement Endpoint 1a)

As discussed previously, SQG have been compiled for the purpose of predicting the potential toxicity of contaminated sediments. The results and comparison of COPECs to SQG are provided in Table 4. In addition, a comparison of the COPEC to the HQ values was calculated for each COPC based on the TEC and PEC, and is provided in Table 5a and 5b.

To further evaluate the potential risk of ecological harm, COPCs were compared to the PEC developed by MacDonald et al (2000). While the TEC represents the concentration below which adverse effects are not expected to occur, exceedance of the PEC is assumed to indicate the potential for adverse effects to benthic organisms for many chemicals. However, MacDonald et al. reported that mixtures of contaminants could be compared to mean PECs to predict toxicity. Specifically, PEC quotients calculated for mixtures of contaminants that were less than 0.5 were determined to not be significantly toxic to sediment-dwelling organisms. As such, concentrations of COPEC identified previously were compared to PEC values by calculating the mean PEC quotient (SQG-Q (PEC)) as such:

$$\text{SQG-Q (PEC)} = \frac{1}{n}\sum_{i=1}^{n}\frac{C_i}{PEC_i}$$

- Unlikely to Cause Adverse Ecological Effects (SQG-Q(PEC) $\leq$ 0.5) is the level at which metals pose a low risk of adverse biological effects.

- Likely to Cause Adverse Ecological Effects (SQG-Q(PEC) $\geq$ 0.5) is the level at which metals are likely to cause adverse biological effects.

The results and comparison of sediment COPCs to the SQG and background are provided in Table 8-1 and 8-2.

Although the HQ(TEC and PEC) for several metals and SVOCs indicate that there is potential for ecological risk associated with each individual COPECs, the more detailed assessment of COPECs using the SQG-Q(PEC) methods indicate that those potential effects are overstated. More specifically, for the portion of Anocoil Pond on the Site, the SQG-Q(PEC) was calculated as <0.5.

4.1.2 PAH Mixtures (Measurement Endpoint 1b)

PAHs are not typically believed to bioaccumulate into tissues of aquatic organisms like other persistent chemicals; however, they may exhibit sub-lethal toxicity through narcosis effects on fish and aquatic invertebrates. Combining equilibrium partitioning (EqP) theory, narcosis theory and additivity, USEPA has developed ESB for PAH mixtures in sediments (USEPA, 2003). Using the methods developed by USEPA, the toxicity of PAH can be modeled to estimate the potential risk of harm to ecological receptors in sediment.

The ESB model is used to estimate the likelihood that no adverse effects are associated with PAH-contaminated sediments. The guidance recommends the ESB for total PAH should be the sum of the quotients of 34 individual PAHs, divided by the $C_{OCi,PAHi,FCVi}$ of that PAH. However, all 34 PAHs recommended for the model were not analyzed for this project. A subset of 13 PAHs, for which there is an uncertainty factor provided in the guidance, have been used. The model considers exposure to the following compounds: acenaphthene, acenaphthylene, anthracene, fluorene, naphthalene, phenanthrene, benz(a)anthracene, benzo(a)pyrene, benzo(b)fluoranthene, benzo(k)fluoranthene, chrysene, fluoranthene, and pyrene. The uncertainty factor (11.5) achieves 95% confidence that the actual $\Sigma ESBTU_{FCV}$ for all 34 PAHs would not be higher than the calculated value. The resulting assumption is assumed to be conservative.

The procedure developed by USEPA (2003) uses EqP and narcosis theory to calculate final chronic values (FCV) for individual PAH ($COCS_{,PAHi,,FCVi}$, ug/g organic carbon). For each individual PAH, a quotient was calculated using the concentration of the individual PAH, on an organic carbon basis, divided by the FCV. Based on this approach, for total PAH the sum of the quotient is the Equilibrium Partitioning Sediment Benchmark Toxic Units (ΣESBTU). The procedures described by USEPA (2003) indicate that sediment invertebrates are unlikely to exhibit effects when exposed to PAH mixtures if the $\Sigma ESBTU_{FCV}$ (Equation 1 below) is less than or equal to 1.00.

$$\Sigma ESBTU_{FCV} = \Sigma(C_{OCi} / C_{OCs,PAHi,FCVi}) \leq 1.00$$

Where:

C_{OCi} = Concentration of the individual PAH on an organic carbon content

$C_{OCS,PAHi,,FCVi}$ = Effect concentration of a PAH in sediment on an organic carbon basis calculated from product of its FCV and K_{ow}

The toxicity endpoints are:

- Threshold of Unlikely Toxicity ($\Sigma ESBTU_{FCV} \leq 1.00$) is the threshold where mixtures of PAH are unlikely to contribute to sediment toxicity above background.

- Threshold of Probable Toxicity ($\Sigma ESBTU_{FCV} > 1.00$) is the threshold where mixtures of PAH may contribute to sediment toxicity above background.

Analysis of PAH mixtures for each sample location is provided in Tables 9-1 through 9-3. Using these data, the average $\Sigma ESBTU_{FCV}$ values were used to characterize potential toxicity as follows:

- No Risk/High Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV}$ is "unlikely" and $\Sigma ESBTU_{FCV} \leq 0.10$
- No Risk/Low Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV}$ is "unlikely" and $0.10 < \Sigma ESBTU_{FCV} \leq 1.00$
- Risk/Low Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV}$ is "probable" and $1.00 < \Sigma ESBTU_{FCV} \leq 10.00$
- Risk/High Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV}$ is "probable" and $\Sigma ESBTU_{FCV} > 10.00$

As provided in Tables 9-1 to Table 9-3, the estimated $\Sigma ESBTU_{FCV}$ values ranged from 3.77 for samples collected on the Anocoil parcel on Anocoil Pond to 23.18 for background samples collected from Paper Mill Pond.

Based on this evaluation, there is a risk of harm to sediment-associated ecological receptors attributed to PAHs in Anocoil Pond. The confidence associated with this "risk" is low. There is also risk of harm attributed to PAHs in Paper Mill Pond (background). The confidence associated with said "risk" is high.

4.2 Assessment Endpoint 2

The health of the aquatic organism community can be assessed through lines of evidence (measurement endpoints). This BERA considers one line of evidence: bulk surface water chemistry.

4.2.1 Evaluation of Surface Water (Measurement Endpoint 2)

Surface water quality was considered in the evaluation for protection of aquatic organisms (Measurement Endpoint 2). For the purpose of evaluating individual chemical concentrations, ecological screening level criteria prepared by DEEP (2013), USEPA WQC (2018), USEPA Region 4 (2018), USEPA Region 5 (2003), and DEEP/CTDPH (2012) for freshwater aquatic life were considered. The results and comparison of COPECs to WQC are provided in Table 6.

Both total metal concentrations and dissolved metal concentrations were analyzed in 2017 and reported. The USEPA has determined that the dissolved fraction of metals in water is more closely approximate to the bioavailable, or toxic, fraction of metals in the water column than the total concentrations.

Assessing total metal concentration may result in a more conservative estimate. The majority of the WQC for metals are provided for both the dissolved fraction and the total fraction. As a result, evaluation of the both the total and dissolved metal values were used in the identification of COPECs in surface water.

The results and comparison of surface water COPCs to the WQC and background are provided in Table 10-1 and 10-2. Hazard quotients for each COPC were calculated using the WQC and are provided in Table 7. Dissolved aluminum was identified as a contaminant that may cause ecological effects in two of the three samples collected on-site from Anocoil Pond. In addition, benzo(a)pyrene, benzo(k)fluoranthene, and indeno(1,2,3-cd)pyrene were identified as contaminants that may cause ecological effects at one on-site Anocoil Pond location. Laboratory reporting limits for several constituents (total cadmium, selenium, and silver, dissolved cadmium, copper, lead, mercury, selenium, and silver, benzo(ghi)perylene, and indeno(1,2,3-cd)pyrene) exceeded the WQC and therefore appeared to have HQ>1.0. Based on guidance provided by USEPA (1991), HQ of non-detects where laboratory detection limits exceeded the WQC were re-evaluated using the ½ detection limit method. Following this method, total silver, total zinc, dissolved silver, benzo(ghi)perylene, and indeno(1,2,3-cd)pyrene, exceeded HQ 1.0 in one or more samples, including samples collected from the Site.

4.3 Assessment Endpoint 3

As described in Section 2.4.3, potential impact to upper trophic level species under the scenarios evaluated were addressed through the calculation of screening-level dose estimates for four wildlife species: American robin, short-tailed shrew, red-tailed hawk, and belted kingfisher.

Receptors such as the robin, shrew, and belted kingfisher are assumed to be indirectly exposed to sediments through incidental ingestion and consumption of prey (e.g. invertebrates) and/or vegetation, as depicted in the CESM (Figure 3). Ingestion of surface water was also accounted for in the models for both the robin and shrew. For each of these species, the exposure point concentrations were determined based on average sediment or surface water concentrations for the entire Site (all of Anocoil Pond), the portion of Anocoil Pond located on the Anocoil parcel, and for the local background area (Paper Mill Pond).

Small mammals comprise 80 percent of the diet of red-tailed hawks. Ingestion of sediment and surface water is considered negligible. For predatory birds, the exposure point concentrations were determined based on average sediment or surface water concentrations for the entire Site and for local background areas.

A summary of the method used to calculate dose estimates for each species is summarized below. The calculated doses were compared to effects concentration data or toxicity reference values (TRVs) presented by Sample et al. (1996) to generate hazard quotients (HQs). HQs were calculated for both No-Observable Adverse Effects Levels (NOAEL) and Lowest-Observable Adverse Effects Levels (LOAEL) as:

$$HQ_{NOAEL} = DI / NOAEL$$

$$HQ_{LOAEL} = DI / LOAEL$$

where:

DI = Daily Intake of a given COPEC via food chain (mg/kg-day)
NOAEL = No Observable Adverse Effect Level (mg/kg-day); The highest dose of a COPEC that does not produce a measurable adverse effect;
LOAEL = Lowest Observable Adverse Effect Level (mg/kg-day); The lowest dose of a COPEC that does not produce a measurable adverse effect

HQs calculated as greater than 1.0 indicate that there is an exceedance of the NOAEL or LOAEL. When $HQ_{NOAEL} \leq 1.0$ then it is unlikely that adverse effect will be associated with that COPEC. When $HQ_{LOAEL} > 1.0$ then it is likely that adverse effects will be associated with that COPEC; however, what those specific effects are is unknown. When $HQ_{NOAEL} > 1.0$ and $HQ_{LOAEL} < 1.0$ then it is probable that adverse effects will be associated with that COPEC.

4.3.1 Insectivorous Songbird (Measurement Endpoint 3a)

American robins (*Turdus migratorius*) are terrestrial songbirds feeding primarily on soil invertebrates (USEPA, 1993). American robins may be attracted to pond edges for foraging on insects attracted to pond-side debris, insects that have fallen from overhanging foliage, and annelids (Vanderhoff et al., 2016). For the purpose of this assessment, it was assumed that the primary exposures of robins to COPEC would be through the ingestion of invertebrates (i.e., earthworms) found in the pond edge sediments, which constitute 48 percent of their diet. Ingestion of sediment and surface water was also accounted. The average home range of the robin is 0.25 acres (USEPA, 1993). The surface area of Anocoil Pond is approximately 0.6 acre and Paper Mill Pond is approximately 8 acres. As a conservative assessment of exposure, it was assumed that the Site as well as each habitat area constitutes 100 percent of a robin's home range.

The concentration of COPEC in soil (sediment) invertebrates was estimated using uptake factor equations reported by EPA (2003) and using the following equation:

$$C_i = C_s * UF_i$$

where:

C_i = Concentration of COPEC assimilated to invertebrate tissue (mg/kg-dry wt)
C_s = Concentration of COPEC measured in soil or sediment (mg/kg-dry wt)
UF_i = Invertebrate Uptake Factor = Rate of COPEC Loading to Invertebrates (unitless) (Assumed to be 1.00 in absence of published value or model)

Based on these estimated concentrations, the dose to the robin was calculated using the following equation:

$$DI = [C_i * IR_f * FD_i]+[C_s * IR_s]+[C_w * IR_w]* (FA_o/FA_t)$$

where:

DI	=	Daily Intake of a given COPEC via food chain (mg/kg-day)
C_s	=	Concentration of COPEC measured in soil or sediment (mg/kg-dry wt)
C_i	=	Concentration of COPEC assimilated to invertebrate tissue (mg/kg-dry wt)
C_w	=	Concentration of COPEC measure in surface water (total mg/L)
BW	=	Body Weight = 0.08 kg (USEPA, 1999)
IR_f	=	Normalized Food Ingestion Rate 1.52 kg/kg-day (USEPA, 1993)
IR_s	=	Soil/Sediment Ingestion Rate = 1 percent of IRf (USEPA, 1999)
IR_w	=	Water Ingestion Rate = 0.140 L/kg-day(USEPA, 1993)
FD_i	=	Fraction of Diet Comprised of Invertebrates = 0.48 (USEPA, 1993)
FA_o/FA_t	=	On-Site Foraging Area to Total Foraging Area = Proportion of homerange (Assumed = 1.00)

Food chain exposure modeling is provided as Table 11-1 through 11-3.

4.3.2 Insectivorous Mammals (Measurement Endpoint 3b)

Northern short-tailed shrews (Blarina brevicauda) are terrestrial and semi-aquatic mammals that are primarily carnivorous. During the breeding season, shrews feed on insects, worms, snails, and other invertebrates, which constitute 70 percent of the mammal's diet. Therefore, for the purpose of this assessment, it was assumed that the primary exposures of shrews to contaminated sediments would be through the ingestion of invertebrates in pond edge sediment. The average home range of the shrew is one acre (USEPA, 1993). Given that Paper Mill Pond is approximately 8 acres, it was assumed that the background area constitutes 100 percent of the shrew's home range. For the assessment of Anocoil Pond, it was assumed that the pond constitutes 60 percent of the shrew's home range given that Anocoil Pond is approximately 0.6 acre. The concentration of COPEC in soil or wetland sediment invertebrates was estimated using uptake factor equations reported by EPA (2003) and provided in Section 4.3.1. Based on the estimated concentrations, the dose to the shrew was calculated using the following equation:

$$DI = [C_i * IR_f * FD_i]+[C_s * IR_s]+[C_w * IR_w]* (FA_o/FA_t)$$

Where:

DI	=	Daily Intake of a given COPEC via food chain (mg/kg-day)
C_s	=	Concentration of COPEC measured in soil or sediment (mg/kg-dry wt)

C_i	=	Concentration of COPEC assimilated to invertebrate tissue (mg/kg-dry wt)
C_w	=	Concentration of COPEC measure in surface water (total mg/L)
BW	=	Body Weight = 0.017 kg (USEPA, 1999)
IR_f	=	Normalized Food Ingestion Rate 0.555 kg/kg-day (USEPA, 1993)
IR_s	=	Soil/Sediment Ingestion Rate = 1 percent of IR_f (USEPA, 1999)
IR_w	=	Water Ingestion Rate = 0.223 L/kg-day (USEPA, 1993)
FD_i	=	Fraction of Diet Comprised of Invertebrates = 0.70 (USEPA, 1993)
FA_o/FA_t	=	On-Site Foraging Area to Total Foraging Area = Proportion of home range (Assumed = 1.00 for background; 0.60 for Anocoil Pond)

Food chain exposure modeling is provided as Table 12-1 through 12-3.

4.3.3 Predatory Birds (Measurement Endpoint 3c)

The red-tailed hawk (*Buteo jamaicensis*) is the most common Buteo species in the United States and is found in a wide range of habitats including woodlands, wetlands, pastures, and prairies. Red-tailed hawks hunt primarily from an elevated perch, often near woodland edges feeding primarily on small mammals, including mice, shrews, voles, rabbits, and squirrels. Small mammals constitute approximately 80 percent of the red-tailed hawks diet. Therefore, for the purpose of this assessment, it was assumed that the primary exposures of red-tailed hawks to contaminated sediments would be through the ingestion of small mammals on-site. Ingestion rates of soil or sediment and water were considered negligible.

The average home range of the red-tailed hawk is 1,035 acres (USEPA, 1993). Anocoil Pond is approximately 0.6 acre and Paper Mill Pond is approximately 8 acres. For purposes of this study, it was assumed that Anocoil Pond constitutes 0.0006 percent of the hawk's home range. Due to the small percentage of potential home range, the exposure point concentrations were determined based on average sediment or surface water concentrations for the entire Site and for a local background area.

Small mammals comprise 80 percent of the diet of red-tailed hawks. Ingestion of sediment and surface water is considered negligible. The concentration of COPECs in small mammals was estimated using uptake factor equations reported by EPA (2003) and the following equation:

$$C_m = C_s * UF_m$$

Where:

C_m	=	Concentration of a COPEC assimilated to small mammal tissue (mg/kg-dry wt)
C_s	=	Concentration of a COPEC measured in soil or sediment (mg/kg-dry wt)
UF_m	=	Mammalian Uptake Factor = Rate of COPEC loading to small mammals (unitless) (Assumed to be 1.00 in absence of published value)

Based on these estimated concentrations, the dose to the red-tailed hawk was calculated using the following equation:

$$DI = [C_m * IR_f * FD_m]* (FA_o/FA_t)$$

Where:

DI	=	Daily Intake of a given COPEC via food chain (mg/kg-day)
C_s	=	Concentration of a COPEC measured in soil or sediment (mg/kg-dry wt)
C_m	=	Concentration of a COPEC assimilated to small mammal tissue (mg/kg-dry wt)
BW	=	Body Weight = 1.130 kg (USEPA, 1999)
IR_f	=	Food Ingestion Rate = 0.110 kg/kg-day (USEPA, 1993)
FD_m	=	Fraction of Diet comprised of mammals = 0.80 (USEPA, 1993)
FA_o/FA_t	=	On-site Foraging Area to Total Foraging Area = Proportion of home range (Assumed = 0.03)

Food chain exposure modeling is provided as Table 13-1 and 13-2.

4.3.4 Piscivorous Birds (Measurement Endpoint 3d)

The belted kingfisher (*Ceryle alcyon*) is a small to medium-sized bird commonly found throughout much of the United States. The belted kingfisher will use a variety of habitat types including ponds, lakes, rivers, streams, reservoirs, large vernal pools, seacoasts, estuaries, and harbors. They require calm, clear (low turbidity), open water with nearby foraging perches (branches, telephone wires, pilings) for hunting. Waterbodies with dense mats of aquatic plants, floating debris, or heavy siltation from heavy rains or wave action are unlikely to be frequented by belted kingfisher. Their diet includes primarily fish, but they may also feed on mollusks, crustaceans, insects, amphibians, reptiles, young birds, small mammals, and some berries. For the purpose of this assessment, it was assumed that the primary exposures of belted kingfisher to contamination would be through the ingestion of fish and water. Ingestion rate of sediment was considered negligible.

Home range and territoriality of foraging belted kingfisher are typically expressed in linear miles of shoreline, not by area, and averages 0.6 miles, although may be twice as long during the breeding season. Typically, stream territories will be longer than lake territories (USEPA, 1993). Based on the habitat characteristics of the Site, it is reasonable to assume that Anocoil Pond and the background area may provide habitat for a belted kingfisher. It is assumed that the length of Paper Mill Pond may provide 50% of a kingfisher's home range. It is assumed that Anocoil Pond may provide 6% of a kingfisher's home range. These assumptions are reflected in the calculations.

The concentration of COPEC in fish was estimated using uptake factor equations reported by EPA (2003) and the following equation:

$$C_m = C_s * UF_m$$

Where:

C_s = Concentration of COPEC measured in soil or sediment (mg/kg-dry wt)

C_f = Concentration of COPEC assimilated to fish tissue (mg/kg-dry wt)

UF_f = Fish Uptake Factor = Rate of COPEC Loading to Fish (unitless) (Assumed to be 1.00 in absence of published value)

Based on these estimated concentrations, the dose to the belted kingfisher was calculated using the following equation:

$$DI = [(C_f * IR_f * FD_f)/BW)] + [(C_w * IR_w)/BW)] * (FA_o/FA_t)$$

Where:

DI = Daily Intake of a given COPEC via food chain (mg/kg-day)

C_w = Concentration of COPEC measured in surface water (mg/kg-dry wt)

C_f = Concentration of COPEC assimilated to fish tissue (mg/kg-dry wt)

BW = Body Weight = 0.148 kg

IW_R = Water Ingestion Rate 0.11 mg/kg-day

IR_f = Food Ingestion Rate 0.5 kg/kg-day

FD_f = Fraction of Diet Comprised of Fish = 1.0

FA_o/FA_t = On-Site Foraging Area to Total Foraging Area = Proportion of home range (varies)

Food chain exposure modeling is provided as Table 14-1 and 14-2.

5 Summary of Data Evaluated

A summary of the data evaluated is provided in this section. The complete analytical reports are provided in Appendix A and B.

5.1 Sediment

As previously discussed, sediment samples were collected from 10 locations and submitted for chemical analysis. Samples were collected from 0 to 6 inches below the top of sediment. The samples collected in 2017 were collected as grab samples using dedicated sampling scoops in along the pond edge. Samples collected in 2015 were reportedly collected from a boat using a hand auger with overwater depths of 5.75 to 10.67 feet.

5.1.1 Bulk Sediment Chemistry

Evaluation of metals against SQG (PEC) and local background conditions for all of Anocoil Pond and for the portion of Anocoil Pond on the Site property are provided in Table 8-1 and 8-2. As discussed in Section 4.1.1, the SQG (PEC) criteria indicated that an adverse effect to ecological receptors is expected above the given concentration. Cadmium, lead, and mercury concentrations exceeded the SQG (PEC) at one or more locations. More specifically, cadmium and mercury were only detected above the SQG (PEC) at the Amerbelle Raceway location (SED-2, located on Former Amerbelle parcel); lead was detected above the SQG(PEC) at one location on the Anocoil Parcel (SED-01), as well as on the Former Amerbelle parcel and at background locations. It is important to note that of the constituents analyzed, SQG (PEC) criteria do not exist for aluminum, barium, selenium, silver, VOCs, ETPH, or most SVOCs. However, concentrations of all PAHs (a subset of SVOCs), bis(2-ethylhexyl)phthalate, and carbon disulfide exceeded the respective SQG. There is currently no SQG developed for aluminum, ETPH, or p-isopropyltoluene (which were detected above laboratory reporting limits).

SQG-Q (PEC) were calculated for the entire Anocoil Pond as well as for the portion of Anocoil Pond located on the Former Anocoil parcel. The mean SQG-Q (PEC) for the entire Anocoil Pond evaluation (Table 8-1) was 3.2; the mean SQG-Q(PEC) for Anocoil Pond on the Former Anocoil parcel was 0.4 (Table 8-2). As discussed previously, mean SQG-Q(PEC) >0.5 indicates probable ecological effects of the combined effects of multiple contaminants in sediment (MacDonald et al, 2000). Based on results, probable ecological effects appear to be driven by concentrations of COPECs originating from upstream locations. More specifically, the SQG-Q(PEC) value of 3.2 for the entire Anocoil Pond was driven by concentrations of cadmium, lead, nickel, and PAHs collected from the off-site portion of the pond.

5.1.2 PAH Mixtures

An analysis of PAH mixtures was conducted for background, off-site Anocoil Pond, and on-site Anocoil Pond sample locations The $\Sigma ESBTU_{FCV,TOT}$ was calculated at greater than 1.0 for the three locations evaluated. Based on an assessment of the overall site, it is probable that PAHs contribute to sediment toxicity. The $\Sigma ESBTU_{FCV,TOT}$ for the background location, off-site Anocoil Pond, and on-site Anocoil Pond were calculated at 23.18, 5.45 and 3.77, respectively; exceeding the probable threshold of likelihood to contribute to sediment toxicity. There is probable risk of harm to sensitive benthic organisms due to the combined effects of PAH concentrations found in sediments in these areas. It is important to note that this model focuses on the combined effects of PAH concentrations only, and does not consider synergistic effects of other sediment contaminants in combination with PAH concentrations or the bioaccumulative effects of PAH mixtures. As discussed in Section 4.1.2, the calculated sun PAH values are considered conservative. Calculation of PAH mixtures are provided in Table 9-1 through Table 9-3.

5.2 Water

As previously discussed, surface water samples were collected from 6 locations in Anocoil Pond and 4 locations in Paper Mill Pond and submitted for chemical analysis. The samples collected in 2017 were collected as grab samples using dedicated surface water scoops. Samples were collected prior to

sediment samples. Samples collected in 2015 were reportedly collected from a boat using a peristaltic pump. Sample depths were at one foot.

5.2.1 Surface Water Chemistry

Evaluation of total metals against WQC and local background conditions for all of Anocoil Pond and for the portion of Anocoil Pond on the Site property are provided in Table 9-1 and 9-2. Evaluation of dissolved metals against WQC and local background conditions is also provided in Table 9-1 and 9-2. The background concentration of dissolved barium exceeded the WQC (SW-04). Concentration of total lead, dissolved aluminum and barium, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, and pyrene exceeded the WQC in one or more samples collected from the portion of Anocoil Pond located on the Former Anocoil parcel (SW-01 through SW-03). Dissolved metals were not evaluated during the 2015 sampling effort and therefore no dissolved metals concentrations are available for the off-site portion of Anocoil Pond.

Laboratory reporting limits for total cadmium, copper, selenium, and silver, dissolved cadmium, copper, and lead, anthracene, and benzo(a)anthracene exceeded the WQC. Dissolved metals, ETPH, and VOCs were not analyzed during 2015 sampling effort. Total metals and SVOCs were not detected above the WQC in the 2015 sample results. Table 6 summarizes results of the constituents analyzed as part of this BERA.

Hazard quotients for each COPC were calculated using the WQC (Table 7). As a result of hazard quotients calculated for each COPC, aluminum (in the dissolved fraction), lead (in the total fraction), benzo(a)anthracene, and benzo(a)pyrene were identified in Anocoil Pond (on the Former Anocoil parcel) as contaminants that may cause ecological effects and were not identified above the WQC in background samples. In the case of non-detected analytes (i.e. total arsenic), the laboratory detection limit was used to find the HQ. Several of these parameters resulted with hazard quotients greater than one. A discussion of the use of ½ the detection limit is provided in Section 4.2.

5.3 Risk Estimated for Wildlife

Concentrations for COPEC were pooled for all of Anocoil Pond, as well as the portion of the pond located on the Site parcel, to evaluate the effects of those contaminants on upper trophic levels through food chain transfer. Three species were evaluated as representative of receptors that may use the Site in whole or in part. Each species was evaluated for its usage of the local background area (Paper Mill Pond) as well as Anocoil Pond.

5.3.1 Insectivorous Songbird

Hazard quotients were calculated for the American robin for the background location, all of Anocoil Pond, and the on-site portion of Anocoil Pond. Hazard quotients calculated for the robin are summarized in Section 4.3.1. As discussed in Section 4.3, HQs calculated as greater than 1.0 indicate that there is an exceedance of the NOAEL or LOAEL. $HQ_{NOAEL} \leq 1.0$ indicates that it is unlikely that adverse effect will be associated with that COPEC. For the representative local background location, HQ_{NOAEL} was greater than 1.0 for aluminum, arsenic, cadmium, lead, mercury, selenium, and

bis(2-ethylhexyl)phthalate. Similarly, HQ_{NOAEL} values greater than 1.0 were calculated for these constituents and zinc at pond-wide sampling locations and the on-site portion of the pond. As discussed previously, when $HQ_{LOAEL} > 1.0$ then it is likely that adverse effects will be associated with that COPEC. The HQ_{LOAEL} were greater than 1.0 for aluminum, arsenic, cadmium, mercury, and selenium at the background location as well as the Anocoil Pond locations. A summary of HQs is provided in Table 15. Based on the HQs calculated for each location, there is risk of harm to insectivorous songbirds associated with COPECs found at the background location, all of Anocoil Pond, and the on-site portion of Anocoil Pond.

5.3.2 Insectivorous Mammals

Hazard quotients were calculated for the short-tailed shrew for the background location, all of Anocoil Pond, and the on-site portion of Anocoil Pond. Hazard quotients calculated for the shrew are summarized in Section 4.3.2. As discussed in Section 4.3, HQs calculated as greater than 1.0 indicate that there is an exceedance of the NOAEL or LOAEL. $HQ_{NOAEL} \leq 1.0$ indicates that it is unlikely that adverse effect will be associated with that COPEC. For the representative local background location, HQ_{NOAEL} was greater than 1.0 for aluminum, arsenic, cadmium, mercury, selenium, benzo(a)pyrene, and bis(2-ethylhexyl)phthalate. Similarly, HQ_{NOAEL} values greater than 1.0 were calculated for these constituents at pond-wide sampling locations and the on-site portion of the pond. As discussed previously, when $HQ_{LOAEL} > 1.0$ then it is likely that adverse effects will be associated with that COPEC. The HQ_{LOAEL} were greater than 1.0 for aluminum, arsenic, cadmium, selenium, and benzo(a)pyrene at the background location as well as the Anocoil Pond locations. A summary of HQs is provided in Table 16. Based on the HQs calculated for each location, there is risk of harm to insectivorous mammals associated with COPECs found at the background location, all of Anocoil Pond, and the on-site portion of Anocoil Pond.

5.3.3 Predatory Birds

Hazard quotients were calculated for the red-tailed hawk for the representative local background location and all of Anocoil Pond (Section 4.3.3). Both the HQ_{NOAEL} and HQ_{LOAEL} were less than 1.0 for all COPECs, indicating that adverse effects to predatory birds from COPECs are unlikely. A summary of HQs is provided in Table 17.

5.3.4 Piscivorous Birds

Hazard quotients were calculated for the belted kingfisher the representative local background location and all of Anocoil Pond. Hazard quotients calculated for the belted kingfisher are summarized in Section 4.3.4. Both the HQ_{NOAEL} and HQ_{LOAEL} were less than 1.0 for all COPECs, indicating that adverse effects to piscivorous birds from COPECs are unlikely. A summary of HQs is provided in Table 18.

6 Risk Characterization

Using the data described in Section 5 and the criteria described below, a presence of risk (e.g. "risk" or "no risk") and a confidence of risk (e.g. low or high) was derived for each evaluated pond area for each

of the measurement endpoints, based on the results for each data type (e.g., sediment concentration, percent survival, etc.) as described in Section 4. Each measurement endpoint was also assigned a relative weight, reflecting the overall confidence in the measurement endpoint in terms of the strength of association with the assessment endpoint and the quality of the data evaluated as discussed in Section 2.

6.1 Assessment Endpoint 1: Survival, Growth and Reproduction of Benthic Invertebrate Community

As described in Section 2.5.1, the health of the benthic invertebrate community was evaluated through comparison of individual and combined chemical concentrations to selected SQG. Although the sediment data are believed to be of good quality, the relative weight assigned to these measures (Measurement Endpoint 1) was only moderate because of the uncertainties associated with predicting toxicity based on bulk sediment chemistry.

6.1.1 Measurement Endpoint 1 – Bulk Sediment Chemistry

Measurement Endpoint 1 focused on comparison of individual and combined chemical concentrations to the bulk sediment quality guidelines listed in Table 2, specifically the SQG. Chemical concentrations were also compared to local background concentrations. SQG-Q (PEC) were calculated to estimate the relative risk associated with chemical mixtures in sediments collected from each river segment. Based on results from studies conducted by McDonald et al (2000) and Ingersoll et al. (2000), Measurement Endpoint 1 was scored as follows:

- No Risk/High Confidence: Areas where:
  - the Mean SQG-Q (PEC) $\leq$ 0.1; and
  - no more than five COPEC exceeded their SQG (PEC) and local background; and
  - no COPEC was more than two times greater than its respective SQG (PEC)
- No Risk/Low Confidence: Areas where:
  - the Mean SQG-Q (PEC) >0.1 but $\leq$ 0.5; and
  - no more than ten COPEC exceeded their SQG (PEC) and local background; and
  - no COPEC was more than five times greater than its respective SQG (PEC)
- Risk/Low Confidence: Areas where:
  - the Mean SQG-Q (PEC) > 0.5 but $\leq$ 1.0; and
  - no more than 15 COPEC exceeded their SQG (PEC) and local background; and
  - no COPEC was more than ten times greater than its respective SQG (PEC)
- Risk/High Confidence: Areas where:
  - the Mean SQG-Q (PEC) > 1.0; and
  - more than 15 COPEC exceeded their SQG (PEC) and local background; and
  - one or more COPEC was more than ten times greater than its respective SQG (PEC)

A comparison of sediment concentrations to SQG (PEC) and local background concentrations is provided in Tables 8-1 and 8-2 for all COPECs. A summary of the calculated SQG-Q (PEC) are

provided in Table 19; mean SQG-Q (PEC) ranged from 0.4 to 8.1. The highest SQG-Q (PEC) was associated with pyrene at the background location. In all cases, where an exceedance was identified, concentrations of ETPH and SVOCs were consistently higher in the background samples; metal concentrations were generally higher at the Anocoil Pond sample locations.

Table 19 - Summary of Risk for Bulk Sediment Chemistry Analyses
Former Anocoil Corporation – Rockville, Connecticut
Baseline Ecological Risk Assessment

	Mean SQG-Q (PEC)	Exceedance(s) of SQG(PEC) & Background	Maximum SQG-Q (PEC)	Risk/Confidence
Background	8.1	n/a	24.3	n/a
Anocoil Pond (All)	3.2	2	11.9	Risk/High
On-Site	0.4	0	1.1	No Risk/Low

6.1.2 Measurement Endpoint 1b – Evaluation of PAH Mixtures

In addition to the metals mixtures, PAH mixtures were evaluated (Measurement Endpoint 1d). Using these data, the average $\Sigma ESBTU_{FCV,TOT}$ values were used to characterize Measurement Endpoint 1c as follows:

- No Risk/High Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV,TOT}$ is "unlikely" and $\Sigma\ ESBTU_{FCV,TOT} \leq 0.10$
- No Risk/Low Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV,TOT}$ is "unlikely" and $0.10 < \Sigma\ ESBTU_{FCV,TOT} \leq 1.00$
- Risk/Low Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV,TOT}$ is "probable" and $1.00 < \Sigma\ ESBTU_{FCV,TOT} \leq 10.00$
- Risk/High Confidence: Areas where the likelihood of toxicity measured by $\Sigma ESBTU_{FCV,TOT}$ is "probable" and $\Sigma\ ESBTU_{FCV,TOT} > 10.00$

As provided in Table 9-1 to Table 9-3, the estimated $\Sigma ESBTU_{FCV,TOT}$ values ranged from 3.77 on the Former Anocoil Corporation parcel on Anocoil Pond to 23.18 at Paper Mill Pond, the local background location. Based on this evaluation, there is probable risk of harm to sediment-associated ecological receptors is attributed to PAHs throughout the study area. Risk of harm is probable throughout Anocoil Pond; the confidence associated with "risk" characterization is low. The confidence of risk in the upstream background area is considered high. The resultant toxicity thresholds and associated risk for each area is summarized in the table below.

Table 20 - Summary of Risk for PAH Mixture Analyses
Former Anocoil Corporation – Rockville, Connecticut
Baseline Ecological Risk Assessment

	$\Sigma ESBTU_{FCV,TOT}$	Likelihood of Toxicity	Risk/Confidence
Background	23.18	Probable	Risk/High Confidence
Anocoil Pond (All)	5.45	Probable	Risk/Low Confidence
On-Site	3.77	Probable	Risk/Low Confidence

6.2 Assessment Endpoint 2: Survival, Growth and Reproduction of Aquatic Organisms

As discussed in Section 4.2, the health of aquatic organisms was evaluated through comparison of individual and combined chemical concentrations to selected WQC. Although the surface water data are believed to be of good quality, the relative weight assigned to Measurement Endpoint 2 was only moderate because of the uncertainties associated with predicting toxicity based on bulk water quality chemistry.

6.2.1 Measurement Endpoint 2 – Surface Water Quality

Measurement Endpoint 2 focused on comparison of individual and combined chemical concentrations to the water quality criteria listed in Table 2, specifically the WQC. Chemical concentrations were also compared to local background concentrations. WQC-Q were calculated to estimate the relative risk associated with chemical mixtures in surface water collected from each area (Table 21). Measurement Endpoint 2 was scored as follows:

- No Risk/High Confidence: Areas where, for both total and dissolved concentrations:
  - no more than one COPEC exceeded its WQC and local background; and
  - no COPEC was more than two times greater than its respective WQC
- No Risk/Low Confidence: Areas where, for both total and dissolved concentrations:
  - no more than two COPEC exceeded their respective WQC and local background; and
  - no COPEC was more than five times greater than its respective WQC
- Risk/Low Confidence: Areas where, for both total and dissolved concentrations:
  - no more than three COPEC exceeded their respective WQC and local background; and
  - no COPEC was more than ten times greater than its respective WQC
- Risk/High Confidence: Areas where, for both total and dissolved concentrations:
  - more than three COPEC exceeded their respective WQC and local background; and
  - one or more COPEC was more than ten times greater than its respective WQC

A comparison of surface water concentrations to WQC and local background concentrations is provided in Tables 9-1 and 9-2 for both dissolved and total metals, SVOCs, and VOCs. A summary of the calculated WQC-Q are provided in Table 21; mean WQC-Q ranged from 1.1 to 2.9. The highest WQC-Q was associated with barium in the background and Anocoil Pond samples. In most cases, where an exceedance was identified, concentrations were higher in the Anocoil Pond samples.

Table 21 - Summary of Risk for Bulk Surface Water Chemistry Analyses
Former Anocoil Corporation – Rockville, Connecticut
Baseline Ecological Risk Assessment

	Mean WQC-Q	Exceedance(s) of WQC & Background	Maximum WQC-Q	Risk/Confidence
Background	1.1	n/a	7.0	n/a
Anocoil Pond (All)	2.8	7	7.8	Risk/High Confidence
On-Site	2.9	7	7.8	Risk/High Confidence

6.3 Assessment Endpoint 3: Sustainability of Upper Trophic Level Populations

To evaluate risks to upper trophic level species, doses associated with exposures to contaminated sediments and surface water were estimated for three wildlife receptor species: the American robin, short-tailed shrew, red-tailed hawk, and belted kingfisher. A summary of the methods and assumptions used are presented in Section 4.3. Briefly, the species were assumed to be exposed through consumption of contaminated prey and through incidental or intentional ingestion of sediment and surface water, as outlined in the conceptual site model (Figure 3). For the purpose of calculating dose estimates and resulting HQs for each area using the dose and trophic transfer equations described in Section 4.3, mean detected sediment and surface water concentrations were used. In the absence of a detection, the mean detection limit was used.

The following criteria were used to score each area for potential risk:

- No Risk/High Confidence: Areas where HQ_{NOAEL} and HQ_{LOAEL} for all COPEC were both less than or equal to 1.0.

- No Risk/Low Confidence: Areas where, for three or more COPEC, HQ_{NOAEL} are greater than 1.0 and less than or equal to 10.0 and, for all COPEC, HQ_{LOAEL} are less than or equal to 1.0.

- Risk/Low Confidence: Areas where, for three or more COPEC, HQ_{NOAEL} are greater than 10.0 or, for one or more COPEC, HQ_{LOAEL} are greater than 1.0 and less than or equal to 10.

- Risk/High Confidence: Areas where, for three or more COPEC, HQ_{NOAEL} was greater than 10 and, for one or more COPEC, HQ_{LOAEL} was greater than 10.

Table 22 below summarizes the evaluation of risk and confidence for each wildlife species for the applicable area (e.g., background).

Table 22 - Summary of Risk for Wildlife Exposure Analyses
Former Anocoil Corporation – Rockville, Connecticut
Baseline Ecological Risk Assessment

	American Robin	Short-tailed Shrew	Red-tailed Hawk	Belted Kingfisher
Background	Risk/High Confidence	Risk/ High Confidence	No Risk/ High Confidence	No Risk/ High Confidence
Anocoil Pond (All)	Risk/ High Confidence	Risk/ High Confidence	No Risk/ High Confidence	No Risk/ High Confidence
On-Site	Risk/ High Confidence	Risk/ High Confidence	n/a	n/a

6.3.1 Measurement Endpoint 3a – American Robin

Based on evaluations of the HQ_{NOAEL} and HQ_{LOAEL} for local background locations, the Anocoil Pond as a whole, and the on-site portion of Anocoil Pond, there is potential risk of harm to the robin based on existing sediment and surface water concentrations (Table 11-1 to 11-3, Table 15, and Table 22). The confidence of risk is considered high for all areas because for one or more COPEC, HQ_{LOAEL} was greater than 10.

6.3.2 Measurement Endpoint 3b – Short-tailed Shrew

Based on evaluations of the HQ_{NOAEL} and HQ_{LOAEL} for local background locations, the Anocoil Pond as a whole, and the on-site portion of Anocoil Pond, there is risk of harm to the short-tailed shrew based on existing sediment and surface water concentrations (Table 12-1 to Table 12-3, Table 16, and Table 22). The confidence of risk is considered high for all areas for one or more COPEC, HQ_{LOAEL} was greater than 10.

6.3.3 Measurement Endpoint 3c – Red-tailed Hawk

Based on evaluations of the HQ_{NOAEL} and HQ_{LOAEL} for local background locations and Anocoil Pond as a whole, there is no significant risk of harm to the red-tailed hawk based on existing sediment concentrations (Table 13-1 and 13-2, Table 17, and Table 22). The confidence of no risk is considered high for both background and Anocoil Pond.

6.3.4 Measurement Endpoint 3d – Belted Kingfisher

Based on evaluations of the HQ_{NOAEL} and HQ_{LOAEL} for local background locations and Anocoil Pond as a whole, there is no significant risk of harm to the kingfisher based on existing surface water concentrations (Table 14-1 and 14-2, Table 18 and Table 22). The confidence of no risk is considered high for both background and Anocoil Pond.

7 Risk Analysis

As discussed in Section 1.1, the objective of this BERA is to evaluate the likelihood that adverse ecological effects may occur or are occurring as a result of exposure to contaminated sediments, surface water (vis-à-vis groundwater discharge), and soil associated with historical Site activities and uses. To this point, Site-specific data has been evaluated and organized in a quantitative or semi-quantitative manner for the purposes of understanding or predicting the relationship between identified stressors (e.g., COPEC) and potential impacts on relevant ecological communities (e.g., Assessment Endpoints). This section synthesizes the weight, risk of harm and confidence described in Section 2.3 and applied in Section 5. Each assessment endpoint is evaluated and the weight of evidence approach is applied.

7.1 Assessment Endpoint 1: Survival, Growth and Reproduction of Benthic Invertebrate Community

For Assessment Endpoint 1, the health of the benthic macroinvertebrate community was evaluated using a comparison of individual and combined chemical concentrations to selected SQG and consideration of effects associated with PAH mixtures.

Using a weight of evidence approach, Assessment Endpoint 1 was evaluated for all of Anocoil Pond and for the on-site portion of Anocoil Pond only. Each measurement endpoint has been assigned a corresponding alphanumeric value where "A" represents Measurement Endpoint 1a, "B" represents Measurement Endpoint 1b.

The weight of evidence evaluating risk to Assessment Endpoint 1 is illustrated in Table 22-1 and Table 22-2. Based on comparisons to the SQG, risk in Anocoil Pond is associated with cadmium, chromium, copper, lead, mercury, and zinc (as summarized in Table 4). Upon further evaluation, concentrations of COPECs are generally highest in the background samples (Paper Mill Pond) and risk at the off-site portion of Anocoil Pond is driven by concentrations of lead and mercury on the Former Amerbelle parcel (Table 8-1). Concentrations of COPECs in Anocoil Pond on the Former Anocoil parcel generally do not exceed the SQG(PEC) screening criteria and in the one instance where it did (dibenzo(a,h)anthracene), the concentration was below background (Table 8-2). An evaluation of PAH mixture analysis indicated that the risk to sediment macroinvertebrates is probable in both background and on-site areas (Table 9-1 and 9-3).

7.2 Assessment Endpoint 2: Survival, Growth and Reproduction of Aquatic Organisms

For Assessment Endpoint 2, survival, growth and reproduction of aquatic organisms were evaluated using a comparison of individual and combined chemical concentrations to selected WQC.

Using a weight of evidence approach, Assessment Endpoint 2 was evaluated for all of Anocoil Pond and for the on-site portion of Anocoil Pond only.

The weight of evidence evaluating risk to Assessment Endpoint 2 is illustrated in Tables 23-1 and 23-2. Based on comparisons to the WQC, risk is associated total lead, dissolved aluminum, dissolved barium, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, and pyrene. Concentrations of total lead, benzo(a)anthracene, benzo(a)pyrene, fluoranthene, and pyrene were highest in samples collected from Anocoil Pond on the Former Anocoil parcel. Dissolved metals were only analyzed during the 2017 sampling event, and therefore there are no dissolved metals concentrations available from the Former Amerbelle parcel.

7.3 Assessment Endpoint 3: Sustainability of Upper Trophic Level Populations

As discussed in Section 4.3, COPECs were pooled for the on-site portion of Anocoil Pond, as well as Anocoil Pond as a whole to evaluate the effects of those contaminants on upper trophic levels through food chain transfer. Three species were evaluated as representative of receptors that are likely to use the Site in whole or in part. Each species was evaluated for its usage of the local background area (Paper Mill Pond) as well as Anocoil Pond. The use of each wildlife receptor species provides an additional weight of evidence for the assessment of risk.

Using a weight of evidence approach, Assessment Endpoint 3 was evaluated for all of Anocoil Pond and for the on-site portion of Anocoil Pond only. Each measurement endpoint has been assigned a corresponding alphanumeric value where "A" represents the American robin, "B" represents the short-tailed shrew, "C" represents the red-tailed hawk, and "D" represents the belted kingfisher. The weight of evidence evaluating risk to Assessment Endpoint 3 is illustrated in Table 23-1 and Table 23-2. The source of each of these evaluations is referenced in the sections below. Based on hazard quotients calculated for each of the receptors, there is risk of harm to the American robin and short-tailed shrew at Anocoil Pond (both as a whole and the on-site portion). Based on calculated hazard quotients, there is no risk of harm to the red-tailed hawk.

7.3.1 Insectivorous Songbirds

The calculated hazard quotients for American robins as representative of songbirds exposed to sediments and/or soils and surface water at Anocoil Pond indicate potential for risk from COPECs (Table 15). The magnitude of this risk was determined to be high throughout the Site and background

area. There is clearly the potential for exposure in this area because several songbird species are known to use the Site. These species may nest in the small scattered shrubs within the Site or along its edges and may spend some time foraging in the open habitat on insects associated with the vegetation or foraging on seeds and fruit associated with the various vegetation.

7.3.2 Insectivorous Mammals

The calculated hazard quotients for small insectivorous mammals, as represented by the short-tailed shrew, exposed to sediments and/or soils and surface water at Anocoil Pond indicate potential for risk from COPECs (Table 16). The magnitude of this risk was determined to be high throughout the Site and background area.

7.3.3 Predatory Birds

The calculated hazard quotients for red-tailed hawks, as representative of predatory birds, exposed to sediments and/or soils, and surface water at Anocoil Pond, indicate no significant potential for risk from COPECs (Table 17).

7.3.4 Piscivorous Birds

The calculated hazard quotients for piscivorous birds, as represented by belted kingfisher, exposed to sediments and/or soils, and surface water at Anocoil Pond, indicate no significant potential for risk from COPECs (Table 18).

8 Uncertainty Analysis

There are a number of uncertainties associated with this assessment. This section identifies those uncertainties and the potential effects that uncertainty has on the overall assessment. The areas of uncertainty described herein do not diminish the validity of the ultimate conclusions. Rather, this section allows those ultimately responsible for managing risk to determine if the level of uncertainty is acceptable enough to make informed decisions. As discussed below, many of the uncertainties associated with this BERA have resulted in an over-estimation of risk to ecological receptors.

- This risk assessment is Site-specific and assumes that media specific data (i.e., sediment and surface water) used are representative of the highest concentrations at the Site. A risk assessment that considers a different set of data or variables will produce different risk estimates.

- Sample size is a limiting factor in the level of confidence, accuracy, and precision of characterizing a release. Generally, the larger the sample size, the better the reflection of the actual conditions of a Site. Although a limited sample size will tend to be less accurate overall, the sample size collected for this BERA was sufficient to determine, on a preliminary basis, whether or not significant risk of harm to the ecological receptors may exist at the Site.

- The assessment relies on comparison to a number of screening benchmarks. It is important to recognize that the predictive ability of such benchmarks is limited. Typically, however, screening benchmarks result in an overestimation of risk.

- Screening benchmarks are not available for all COPECs. However, since most COPECs have screening benchmarks, it is possible to sufficiently estimate overall risk based on available data.

- Use of literature-based ESLs to estimate effects are based on statistical probability of effect typically drawn from a large number of studies. ESLs do not reflect Site-specific conditions or take into account possible synergistic effects between COPECs and other stressors (i.e., low DO, high/low pH, etc.). The effects on estimated risk are unknown at this time.

- Benchmarks exist for a wide array of wildlife species. Species selected as representative ecological receptors were chosen based on habitat availability and the likelihood that they may occur at or near the Site.

- Laboratory reporting limits may result in conclusions that are overly protective of ecological receptors. Specifically, when reporting limits are higher than a given ESL, it is concluded that risk may be present when, in fact, risk may not be present. Two factors account for this uncertainty. First, the ecological screening levels are generally at the lower range of effects resulting in a conservative (overly protective) estimation of risk to ecological receptors. Second, limitations of laboratory testing procedures may make it difficult to detect COPECs at concentrations at or below certain ecological screening levels. Therefore, COPECs identified because their reporting limits exceeded their respective ESLs lead to an overestimation of risk.

9 Conclusions

The purpose of this BERA is to evaluate the likelihood that adverse ecological effects may occur or are occurring as a result of receptor exposure to contaminated sediments or surface water associated with historical Site activities and uses. Through a weight of evidence approach, the potential that there is a risk of harm to ecological receptors was evaluated for Anocoil Pond as a whole, in addition to the portion of Anocoil Pond located on the Former Anocoil Corporation Facility parcel.

The weight of evidence approach used to evaluate risk relied upon three assessment endpoints:

1. Survival, growth and reproduction of the benthic invertebrate community
2. Survival, growth and reproduction of aquatic organisms
3. Sustainability of upper trophic level populations

The principal COPECs identified in sediment and surface water testing were metals and SVOCs. Cadmium, lead, and zinc were consistently identified as a COPECs in sediment in Anocoil Pond. For metals analyzed during both sampling events (2014 and 2017), concentrations were highest in samples collected from the off-site portion of the pond. Concentrations of SVOCs in sediment were typically highest in background samples and samples collected from the off-site portion of Anocoil Pond. At this point in the ecological risk assessment, COPECs with higher concentrations found in upgradient and

background locations, were dropped from the list of COPECs at the Site. In addition, carbon disulfide, which was identified above the SQG at one Site location and one background location is assumed to be a laboratory artifact. Copper and zinc (which were found above the SQG) were evaluated against the SQG(PEC). Both constituents were removed from the list of COPECs in sediment for the Site because the SQG-Q(PEC) was less than 0.5, an indication that potential for adverse effects to benthic organisms is unlikely. Total lead, dissolved aluminum, dissolved barium, benzo(a)pyrene, benzo(a)anthracene, fluoranthene, and pyrene were identified at concentrations above the WQC and background concentrations in surface water and therefore are considered COPECs. However, due to existing topography and groundwater contour mapping in available reports, it is unlikely that Site operations are contributing COPECs to Anocoil Pond.

9.1 Survival, growth and reproduction of the benthic invertebrate community

Tables 23-1 to 23-2 summarize the weight of evidence for Assessment Endpoint 1 concluding that there is undetermined risk of harm to the survival, growth and reproduction of the benthic invertebrate communities in the on-site portion of Anocoil Pond. There is a potential for risk in Anocoil Pond as whole based on the weight of evidence for Assessment Endpoint 1.

Metals were typically detected at higher concentrations at the off-site portion of Anocoil Pond when compared with results from the background location and the on-site portion of Anocoil Pond. Aluminum, copper, nickel, and zinc were only analyzed during the 2017 sampling effort, and therefore there is no information on concentrations of these constituents in off-site Anocoil Pond sediments. For on-site sediments, copper exceeded the SQG at one sample location (SED-01); zinc exceeded the SQG at two sample locations (SED-01 and SED-02). However, when these constituents were compared to the SQG(PEC), concentrations did not exceed the criteria. All sample locations are downstream of historical mill operations along the Hockanum River and upstream of the existing site operations at the Former Anocoil Corporation Facility.

Based on a weight of evidence approach, a risk of harm to the survival growth and reproduction of benthic invertebrate communities (Assessment Endpoint 1) was not identified for the on-site portion of Anocoil Pond.

No additional investigation is recommended for sediments in Anocoil Pond.

9.2 Survival, growth and reproduction of aquatic organisms

Tables 23-1 to 23-2 summarize the weight of evidence for Assessment Endpoint 2 concluding that there is a significant risk of harm to the overall survival or growth of the aquatic community in Anocoil Pond.

Based on a weight of evidence approach, a risk of harm to the survival, growth and reproduction of aquatic organisms (Assessment Endpoint 2) was identified for both the on-site portion of Anocoil Pond

and pond as a whole. Risk is associated with total lead, dissolved aluminum, dissolved barium, benzo(a)pyrene, benzo(a)anthracene, fluoranthene, and pyrene. However, due to existing topography and groundwater contour mapping in available reports, it is unlikely that Site operations are contributing COPECs to Anocoil Pond.

No additional investigation is recommended for surface water in Anocoil Pond.

9.3 Sustainability of upper trophic level populations

Tables 23-1 to 23-2 summarize the weight of evidence for Assessment Endpoint 3 concluding that there is potential risk of harm to the sustainability of upper trophic level populations of insectivorous songbirds (as represented by American robins) and insectivorous mammals (as represented by short-tailed shrew). Risk of harm to predatory birds (as represented by red-tailed hawk) and piscivorous birds (as represented by the belted kingfisher) was not identified.

While the risk of harm to some of these organisms may exist, it is very likely that the risk is limited to local or meta-populations and does not necessarily extend to the greater wildlife population. Instead, it is more likely that this would be a population "sink," meaning that individuals adversely affected by the elevated contaminant concentrations are replaced by other individuals of subsequent generations. Furthermore, the potential risk is not limited to Anocoil Pond, but includes the background location as well. Because this risk extends to areas upstream of Anocoil Pond, a qualitative assessment indicates that the relative risk to upper trophic level populations is negligible.

9.4 Recommendations

The weight of evidence evaluations for both the portion of Anocoil Pond located on the Former Anocoil Corporation Facility parcel and Anocoil Pond as a whole indicate ecological risk. However, higher contaminant concentrations were typically identified in the upstream portion of the pond and at the background location, when compared with results from the portion of the pond present at the Site.

Due to the following factors, additional investigation or remediation of sediment or surface water for the Former Anocoil Corporation Facility parcel is not warranted:

- Negligible Risk to Species Populations: While risk of harm to some species may exist, the risk is limited to local or meta-populations and does not necessarily extend to the greater wildlife population. Instead, it is more likely that this would be a population "sink," meaning that individuals adversely affected by the elevated contaminant concentrations are replaced by other individuals of subsequent generations. Furthermore, the potential risk is not exclusive to the Anocoil Pond but is also associated with the background location. Because this risk is present in areas upstream of Anocoil Pond, a qualitative assessment indicates that the relative risk to upper trophic level populations associated with Anocoil Pond is negligible.

- Up Stream Conditions: Chemical analytical testing of on-site and off-site (upstream) sediments indicate that areas upstream of the Anocoil parcel generally contain higher concentrations of contaminants. Upstream sediments and related contaminants, as well as any upstream contaminated groundwater or surface water discharges, will continue to be sources of contamination until those sources are addressed, and any attempt to address existing sediment and surface water conditions at the Anocoil Pond would not be successful.

- Site Activities: Anocoil Pond is located more than 20 feet in elevation above where industrial activities have been conducted at the Site. Due to existing topography and groundwater contour mapping, it is unlikely that Site operations are contributing COPECs to Anocoil Pond. In addition, based on a review of historical activities, no specific release mechanisms for pollutants to migrate to the pond from former Site processes have been identified, and the likelihood that former or current operations have contributed to pollutants to the pond is negligible.

10 References

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Tables

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Table 1
Sample Locations and Analyses
Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Sample Location ID	Description	Sediment					Surface Water						
		Total Metals (12)[1]	Extractable Total Petroleum Hydrocarbons (ETPH)	Volatile Organic Compounds (VOCs)	Semi-Volatile Organic Compounds (SVOCs)	Total Organic Carbon (TOC)	Total Metals (12)[1]	Dissolved Metals (12)	Extractable Total Petroleum Hydrocarbons (ETPH)	Volatile Organic Compounds (VOCs)	Semi-Volatile Organic Compounds (SVOCs)	alkalinity, conductivity & hardness	Total Organic Carbon (TOC)
SED/SW-01	Anocoil (American Mill) Pond, Southern Bank, Upstream of Catwalk	1	1	1	1	1	1	1	1	1	1	1	1
SED/SW-02	Anocoil (American Mill) Pond, North Bank, Right Dam Abutment	1	1	1	1	1	1	1	1	1	1	1	1
SED/SW-03	Anocoil (American Mill) Pond, Northern Bank	1	1	1	1	1	1	1	1	1	1	1	1
SED/SW-04	Paper Mill Pond, Upstream of Amerbelle and Anocoil	1	1	1	1	1	1	1	1	1	1	1	1
	Subtotal	4	4	4	4	4	4	4	4	4	4	4	4
	QA/QC Sample Duplicates	1	1	1	1	1	1	1	1	1	1	1	1
	TOTAL	5	5	5	5	5	5	5	5	5	5	5	5

NOTES

1. Metals analyses included Al, As, Ba, Cd, Cr, Cu, Hg, Ni, Pb, Se, Ag, Zn

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Table 2
Ecological Screening Levels for Site-Specific COPCs in Wetland Soil / Sediment and Surface Water
Former Anocoil Corporation - Rockville, Connecticut
Baseline Ecological Risk Assessment

Constituents	BIO	Ecological Screening Levels		Screened COPECs		Maximum Site Concentrations		Screening Value Source	
		SQG Sediment	WQC Surface Water	Sediment	Surface Water	Sediment	Surface Water	Sediment	Surface Water
Total Metals		mg/kg	mg/L			mg/kg	mg/L		
Aluminum		25,000	0.087	BSL	ASL	9,010	0.278	USEPA R4	USEPA WQC
Arsenic	*	9.8	0.15	BIO	BIO	5.6	ND	USEPA R3, R5; NOAA	CTDEEP
Barium		20	0.22	ASL	BSL	303	0.035	USEPA R4	USEPA R5
Cadmium	*	1	0.00015	ASL, BIO	BIO, DL	3.41	ND	USEPA R4	USEPA R5
Chromium	*	43.4	0.086	ASL, BIO	BIO	45.7	ND	USEPA R3, R5; NOAA	USEPA R4
Copper	*	31.6	0.0093	ASL, BIO	BIO, DL	66.8	ND	USEPA R3, R5; NOAA	USEPA R4
Lead	*	25.8	0.0032	ASL, BIO	ASL, BIO	1,200	0.005	USEPA R4	USEPA R4
Mercury	*	0.18	0.00077	ASL, BIO	BIO	12.6	ND	USEPA R3; NOAA	CTDEEP; USEPA R4
Nickel	*	22.7	0.052	BIO	BIO	16.3	ND	USEPA R3, R5; NOAA	USEPA R4
Selenium	*	0.72	0.005	BIO, DL	BIO, DL	ND	ND	USEPA R4	CTDEEP; USEPA R5
Silver	*	1	0.00012	BIO	BIO, DL	ND	ND	USEPA R3	USEPA R5
Zinc	*	121	0.12	ASL, BIO	BIO	181	0.016	USEPA R3, R5; NOAA	USEPA R4
Dissolved Metals			mg/L				mg/L		
Aluminum		NTC	0.087	---	ASL	---	0.128	NTC	CTDEEP
Arsenic	*	NTC	0.15	---	BIO, NTC	---	ND	NTC	NTC
Barium		NTC	0.22	---	BSL	---	0.031	NTC	USEPA R4
Cadmium	*	NTC	0.000125	---	BIO, DL	---	ND	NTC	CTDEEP
Chromium	*	NTC	0.042	---	BIO	---	ND	NTC	CTDEEP
Copper	*	NTC	0.0048	---	BIO, DL	---	ND	NTC	CTDEEP
Lead	*	NTC	0.0012	---	BIO, DL	---	ND	NTC	CTDEEP
Mercury	*	NTC	0.0000028	---	ASL, BIO	---	ND	NTC	USEPA R4
Nickel	*	NTC	0.0289	---	BIO	---	ND	NTC	CTDEEP
Selenium	*	NTC	0.005	---	BIO, DL	---	ND	NTC	USEPA R4
Silver	*	NTC	0.00006	---	BIO, DL	---	ND	NTC	USEPA R4
Zinc	*	NTC	0.065	---	BIO	---	ND	NTC	CTDEEP
Extractable Total Petroleum Hydrocarbons		mg/kg	mg/L			mg/kg	mg/L		
Extractable Total Petroleum Hydrocarbons (ETPH)		NTC	0.25	NTC	BSL	520	ND	NTC	CTDEEP/CTDPH
Polycyclic Aromatic Hydrocarbons		ug/kg	ug/L			ug/kg	ug/L		
2-Methylnaphthalene		20.2	4.7	ASL	BSL	230	ND	USEPA R3, R5	USEPA R4
Acenaphthene	*	6.7	15	ASL, BIO	BSL	3,200	ND	USEPA R3, R5	USEPA R4
Acenaphthylene	*	5.9	13	ASL, BIO	BSL	4,800	ND	USEPA R3, R5	USEPA R4
Anthracene	*	57	0.02	ASL, BIO	BSL	9,300	ND	USEPA R4	USEPA R4
Benzo(a)anthracene	*	108	4.7	ASL, BIO	BSL	21,000	0.08	USEPA R3, R5; NOAA	USEPA R4
Benzo(a)pyrene	*	150	0.06	ASL, BIO	ASL, BIO	19,000	0.09	USEPA R3, R5; NOAA	USEPA R4
Benzo(b)fluoranthene	*	190	2.6	ASL, BIO	BIO	25,000	0.1	USEPA R4	USEPA R4
Benzo(ghi)perylene	*	170	0.012	ASL, BIO	DL	5,700	ND	USEPA R3, R5	USEPA R4
Benzo(k)fluoranthene	*	240	0.06	ASL, BIO	ASL, BIO	8,500	0.09	USEPA R3, R5	USEPA R4
Chrysene	*	166	NTC	ASL, BIO	BIO, NTC	18,000	0.1	USEPA R3, R5; NOAA	NTC
Dibenzo(a,h)anthracene	*	33	NTC	ASL, BIO	BIO, NTC	960	0.03	USEPA R3, R5; NOAA	NTC

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Table 2
Ecological Screening Levels for Site-Specific COPCs in Wetland Soil / Sediment and Surface Water
Former Anocoil Corporation - Rockville, Connecticut
Baseline Ecological Risk Assessment

Constituents	BIO	Ecological Screening Levels		Screened COPECs		Maximum Site Concentrations		Screening Value Source	
		SQG Sediment	WQC Surface Water	Sediment	Surface Water	Sediment	Surface Water	Sediment	Surface Water
Polycyclic Aromatic Hydrocarbons		ug/kg	ug/L			ug/kg	ug/L		
Fluoranthene		423	0.8	ASL	BSL	43,000	0.19	USEPA R3, R5; NOAA	USEPA R4
Fluorene	*	77	19	ASL, BIO	BSL	5,000	ND	USEPA R4	USEPA R4
Indeno(1,2,3-CD)pyrene	*	200	0.012	ASL, BIO	ASL, BIO	5,400	0.06	USEPA R4	USEPA R4
Naphthalene		176	21	ASL	BSL	420	ND	USEPA R3, R5; NOAA	USEPA R4
Phenanthrene		204	23	ASL	BSL	28,000	0.08	USEPA R3, R5; NOAA	USEPA R4
Pyrene	*	195	4.6	ASL, BIO	BSL	37,000	0.16	USEPA R3, R5; NOAA	USEPA R4
Other SVOCs (ug/kg)									
Bis(2-ethylhexyl)phthalate		180	8	ASL	BSL	2,300	ND	USEPA R4	USEPA R4
Phenol	*	420	160	BIO	BSL	20	ND	USEPA R3	USEPA R4
VOCs (ug/kg)									
Carbon Disulfide		7.8	15	BSL	BSL	1.4	ND	USEPA R4	USEPA R4
p-Isopropyltoluene		184	16	BSL	BSL	18	ND	USEPA R4	USEPA R4

NOTES

--- = not anlayzed
ND = Not detected above laboratory reporting limit
SQG = Sediment Quality Guidelines
WQC = Water Quality Criteria
COPC = Constituents of Potential Concern
COPEC = Constituent of Potential Ecological Concern
COPEC Selection Rationale:
Above Screening Level(s) (ASL)
No Toxicity Criteria (NTC)
Detection Limit exceeds screening level (DL)
Bioaccumulating or Bioconcentrating (BIO)
COPEC Elimination Rationale:
Below Screening Level (BSL)
Nutrient (NUT)

Reference Documents

CTDEEP = Connecticut Department of Energy and Environmental Protection. 2013. Water Quality Standards: Sections 22a-426-1 through 22a-426-9 of the Regulations of Connecticut State Agencies; DEEP, Effective October 10, 2013.

CTDEEP/CTDPH = Connecticut Department of Energy and Environmental Protection and Connecticut Department of Public Health. 2012. Extractable Petroleum Hydrocarbon Fractions Using the ETPH Analytical Method and Criteria Development. Technical Support Document.

NOAA = Buchman, M.F. 2008. NOAA Screening Quick Reference Tables (SQuiRT), NOAA OR&R Report 08-1, Seattle, WA, Office of Response and Restoration Division, National Oceanic and Atmospheric Administration, 34 pp.

USEPA Eco-SSL = USEPA. 2005. Ecological Soil Screening Levels Interim Final. OSWER Directive 9285.7.

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Table 3-1 - Qualitative Evaluation of the Strength of Measurement
Survival, Growth, and Reproduction of Benthic Invertebrates
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Criteria	Measurement Endpoint	
	1a. Estimated Exposure Concentrations Based on Bulk Sediment Testing	1b. Evaluation of PAH Mixtures
Correlation of the Measurement and Assessment Endpoint	Moderate – Measure of COPECs in sediment is a measure of exposure but not a direct measure of the effects on endpoints.	Moderate – Indirect measure of bioavailable concentrations based on mathematical models
Correlation of Stressor to Response	Moderate – The response of endpoints to COPECs in wetland soil or sediment can be variable.	Low – Toxicity is modeled and not a true representation of stressor response. Does not take into account differences between marine and freshwater amphipods
Sensitivity of the Measurement Endpoint	Moderate – Published literature indicates a wide range of tolerance among endpoints	Moderate – Results based on verified mathematical assumptions
Utility of the Measure for Judging Environmental Harm	Moderate – There are no promulgated standards; however, published ecological screening criteria are available	High – When compared to reference locations, an evaluation of relative impairment is conducted. Guidance for evaluating communities is provided by Barbour et al. (1999).
Site Specificity	High – COPEC concentrations are from the site.	High – Based on COPEC concentrations from the site
Stressor Specificity	Moderate – Additive or antagonistic effects of other COPECs are not considered.	Low – Additive or antagonistic effects of other COPECs as well as physical parameters (i.e. grain size, redox potential, ammonia, etc) are not considered
Use of a Standard Method	High – There are accepted methods for the analysis of COPECs in sediment	High – Methodologies for calculating toxicity is established and tested through peer-review publication
Quantitativeness	High – The measurement is quantitative.	Moderate – The measurement is semi-quantitative.
Overall Strength of Measurement Endpoint	Moderate	Moderate

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Table 3-2 - Qualitative Evaluation of the Strength of Measurement
Survival, Growth, and Reproduction of Aquatic Community
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Criteria	Measurement Endpoint Estimated Exposure Concentrations Based on Bulk Water Testing
Correlation of the Measurement and Assessment Endpoint	Moderate – Measure of COPECs in surface water is a measure of exposure but not a direct measure of the effects on endpoints.
Correlation of Stressor to Response	Moderate – The response of endpoints to COPECs in surface water can be variable.
Sensitivity of the Measurement Endpoint	Moderate – Published literature indicates a wide range of tolerance among endpoints
Utility of the Measure for Judging Environmental Harm	Moderate – There are no promulgated standards; however, published ecological screening criteria are available
Site Specificity	High – COPEC concentrations are from the site.
Stressor Specificity	Moderate – Additive or antagonistic effects of other COPECs are not considered.
Use of a Standard Method	High – There are accepted methods for the analysis of COPECs in sediment
Quantitativeness	High – The measurement is quantitative.
Overall Strength of Measurement Endpoint	Moderate

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Table 3-3 - Qualitative Evaluation of the Strength of Measurement Endpoints for Assessment Endpoint 3
Sustainability of Upper Trophic Level Populations
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Criteria	Measurement Endpoint 3a., 3b., 3c., & 3d. Estimated Exposure Concentrations for Wildlife
Correlation of the Measurement and Assessment Endpoint	Moderate – The estimate of exposure concentration is not a direct measure of survival or reproduction
Correlation of Stressor to Response	Moderate – There is evidence in the literature indicating relationships between exposure concentration of COPECs and changes in bird or mammal physiology, reproduction, and growth; Assumes entire concentration in media is transmitted up the food chain
Sensitivity of the Measurement Endpoint	Low – The literature indicates a wide range intolerance among birds and mammals for exposure concentrations of various COPECs
Utility of the Measure for Judging Environmental Harm	Moderate – There are no promulgated standards for the protection of ecological receptors based on exposure concentrations of COPECs; However, Oak Ridge National Laboratory (Sample et al., 1996) provides a review of toxic exposure concentrations associated with various COPECs
Site Specificity	High – The models used COPEC concentrations are from the site and assume the exposure concentrations are due to ingestion of site media
Stressor Specificity	High – The exposure concentrations are generally empirically derived for a given chemical
Use of a Standard Method	Moderate – The models used standard exposure factors published in the USEPA Wildlife Exposure Factors Handbook (USEPA, 1993)
Quantitativeness	Moderate – The exposure concentrations are mathematically derived and not directly measure from site specific organisms
Overall Strength of Measurement Endpoint	Moderate

Table 4
Summary of Constituents Detected in Pond Sediment
Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond				Anocoil Pond			Anocoil Pond					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SED-4	SED-5	SED-6	SED-04	SED-1 Amerbelle Cooling Water Discharge	SED-2 Amerbelle Raceway	SED-3 Amerbelle Below Bldg. 1	SED-01 South Shore	SED-02 Behind Dam	SED-03 North Shore	SQG	COPEC	Selection Rationale
Various Analytical Parameters														
pH (su)		---	---	---	5.95	---	---	---	6.64	6.49	6.57			
Total organic carbon (mg/kg)		30,000	52,000	140,000	27,000	18,000	48,000	68,000	45,000	16,000	8,200			
Metals (mg/kg)														
Aluminum[1,2]		---	---	---	5,450	---	---	---	9,010	3,640	3,090	25,000	No	BSL
Arsenic	*	1.0	3.4	5.6	1.15	1.7	2.8	2.4	4.3	3.71	<0.88	9.8	Yes	BIO
Barium		47.5	62.8	72.5	69.3	46.2	303	83.3	82.9	31.5	25.6	20	Yes	ASL
Cadmium	*	<0.42	<0.52	<0.99	0.48	1.14	3.41	0.93	1.79	1.46	0.5	1	Yes	ASL, BIO
Chromium[2]	*	8.49	19.7	24.5	13.1	24.4	38.8	45.7	19.6	13.7	8.52	43.4	Yes	ASL, BIO
Copper	*	---	---	---	32.5	---	---	---	66.8	20.9	14.2	31.6	Yes	ASL, BIO
Lead[2]	*	95.4	61	171	240	67.4	1,200	294	128	57.3	26.4	25.8	Yes	ASL, BIO
Mercury[2]	*	<0.04	0.13	0.26	0.05	0.26	12.6	0.16	0.16	<0.03	<0.03	0.18	Yes	ASL, BIO
Nickel[2]	*	---	---	---	9.03	---	---	---	16.3	10.3	6.6	22.7	Yes	BIO
Selenium	*	<1.7	<2.1	<4.0	<2.0	<1.7	<2.4	<2.7	<2.0	<1.8	<2.0	0.72	Yes	BIO, DL
Silver	*	<0.42	<0.52	<0.99	<0.42	<0.42	<0.59	<0.68	<0.56	<0.36	<0.44	1	Yes	BIO
Zinc	*	---	---	---	69.1	---	---	---	146	181	46.2	121	Yes	ASL, BIO
ETPH[1] (mg/kg)		---	---	---	520	---	---	---	<83	<59	<64	NTC	Yes	NTC
PAHs (ug/kg)														
2-Methylnaphthalene		<3,200	18	230	<390	<7.9	77	<12	<11	<7.9	<8.6	20.2	Yes	ASL
Acenaphthene		3,200	23	990	<390	14	640	67	28	9.1	18	6.7	Yes	ASL, BIO
Acenaphthylene		4,800	80	500	1,500	10	110	62	59	53	61	5.9	Yes	ASL, BIO
Anthracene		9,300	91	2,300	2,000	21	1,100	200	94	69	120	57	Yes	ASL, BIO
Benzo(a)anthracene	*	21,000	260	4,600	8,600	46	4,500	650	380	320	510	108	Yes	ASL, BIO
Benzo(a)pyrene	*	19,000	370	4,000	8,600	62	4,100	750	430	400	560	150	Yes	ASL, BIO
Benzo(b)fluoranthene	*	25,000	540	5,500	7,900	88	6,400	1,000	400	370	500	190	Yes	ASL, BIO
Benzo(ghi)perylene		5,700	200	1,900	4,600	60	1,600	530	320	320	390	170	Yes	ASL, BIO
Benzo(k)fluoranthene	*	8,500	200	1,500	7,700	33	2,200	380	370	340	480	240	Yes	ASL, BIO
Chrysene	*	18,000	340	4,200	10,000	58	4,800	740	500	450	660	166	Yes	ASL, BIO
Dibenzo(a,h)anthracene	*	<3,200	49	530	960	12	650	130	130	120	150	33	Yes	ASL, BIO
Fluoranthene		43,000	750	9,200	17,000	150	10,000	1,300	840	820	1,500	423	Yes	ASL
Fluorene		5,000	41	1,500	870	13	480	62	38	23	47	77	Yes	ASL, BIO
Indeno(1,2,3-CD)pyrene	*	5,400	180	1,800	5,000	47	1,500	460	310	300	380	200	Yes	ASL, BIO
Naphthalene		<3,200	42	420	<7.3	37	90	22	16	8.5	<6.2	176	Yes	ASL
Phenanthrene		28,000	380	9,100	7,500	65	7,800	820	380	320	600	204	Yes	ASL
Pyrene	*	37,000	770	7,100	15,000	130	7,500	1,100	730	700	1,400	195	Yes	ASL, BIO
Other SVOCs (ug/kg)														
Bis(2-ethylhexyl)phthalate		<3,200	21	130	420	39	2,300	280	330	230	94	180	Yes	ASL
Phenol	*	<3,200	<11	<19	<390	<7.9	<13	<12	20	<7.9	8.8	420	Yes	BIO
VOCs (ug/kg)														
Carbon Disulfide[3]		---	---	---	1.1	---	---	---	<0.81	1.4	<0.80	7.8	No	BSL
p-Isopropyltoluene[1,4]		---	---	---	<7.3	---	---	---	<8.1	18	<6.2	184	No	BSL

Notes:

Units: ug=micrograms, mg=milligrams, kg=kilograms
All samples were collected from a depth of approximately 0-0.5 feet
BIO = Potential bioaccumulative or bioconcentrating compound (USEPA, 2000, Table 4-2)
SQG = Sediment Quality Guidelines (See Table 2 of this report)
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
Bold and Highlighted values indicates that the concentration exceeds the SQG
[1]There are no ecological risk values for these compounds
[2]Metals known to have been used at the Site: Al, Cr, Pb, Hg, Ni
[3]Commonly used in laboratory chemicals and pesticides (may be a laboratory artifact)
[4]Commonly used in heat transfer agents and in wood office furniture/work surfaces and flat water thinned interior paints and tinting bases

COPEC Selection Rationale:
Above Screening Level(s) (ASL)
No Toxicity Criteria (NTC)
Detection Limit exceeds screening level (DL)
Bioaccumulating or Bioconcentrating (BIO)
COPEC Elimination Rationale:
Below Screening Level (BSL)
Nutrient (NUT)

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Table 5a
COPEC Selection by Hazard Quotient in Sediment - SQG(TEC)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond *(Upstream of Amerbelle - Background)*				Anocoil Pond *(On Amerbelle Property)*			Anocoil Pond *(Anocoil Property)*					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SED-4	SED-5	SED-6	SED-04	SED-1 Amerbelle Cooling Water Discharge	SED-2 Amerbelle Raceway	SED-3 Amerbelle Below Bldg. 1	SED-01[D] South Shore	SED-02 Behind Dam	SED-03 North Shore	SQG (TEC)	COPEC?	Selection Rationale
Metals (mg/kg)														
Arsenic	*	0.1	0.3	0.6	0.1	0.2	0.3	0.2	0.4	0.4	0.1	9.79	Yes	BIO
Barium		0.1	0.2	0.2	0.2	0.1	0.9	0.3	0.3	0.1	0.1	330 [1]	No	BSL
Cadmium	*	0.4	0.5	1.0	0.5	1.2	3.4	0.9	1.8	1.5	0.5	0.99	Yes	ASL, BIO
Chromium	*	0.2	0.5	0.6	0.3	0.6	0.9	1.1	0.5	0.3	0.2	43.4	Yes	ASL, BIO
Copper	*	---	---	---	1.0	---	---	---	2.1	0.7	0.4	31.6	Yes	ASL, BIO
Lead	*	2.7	1.7	4.8	6.7	1.9	33.5	8.2	3.6	1.6	0.7	35.8	Yes	ASL, BIO
Mercury	*	0.2	0.7	1.4	0.3	1.4	70.0	0.9	0.9	0.2	0.2	0.18	Yes	ASL, BIO
Nickel	*	---	---	---	0.4	---	---	---	0.7	0.5	0.3	22.7	Yes	BIO
Selenium	*	0.9	1.1	2.0	1.0	0.9	1.2 [2]	1.4 [2]	1.0	0.9	1.0	2 [1]	Yes	BIO, DL
Silver	*	0.4	0.5	1.0	0.4	0.4	0.6	0.7	0.6	0.4	0.4	1 [1]	Yes	BIO
Zinc	*	---	---	---	0.6	---	---	---	1.2	1.5	0.4	121	Yes	ASL, BIO
Mean SQG-Q(TEC) (metals)		0.6	0.7	1.4	1.0	0.8	15.7	1.8	1.2	0.7	0.4			
PAHs (ug/kg)														
2-Methylnaphthalene		158.4 [2]	0.9	11.4	19.3 [2]	0.4	3.8	0.6	0.5	0.4	0.4	20.2 [1]	Yes	ASL
Acenaphthene		477.6	3.4	147.8	58.2 [2]	2.1	95.5	10.0	4.2	1.4	2.7	6.7 [1]	Yes	ASL, BIO
Acenaphthylene		813.6	13.6	84.7	254.2	1.7	18.6	10.5	10.0	9.0	10.3	5.9 [1]	Yes	ASL, BIO
Anthracene		162.6	1.6	40.2	35.0	0.4	19.2	3.5	1.6	1.2	2.1	57.2	Yes	ASL, BIO
Benzo(a)anthracene	*	194.4	2.4	42.6	79.6	0.4	41.7	6.0	3.5	3.0	4.7	108	Yes	ASL, BIO
Benzo(a)pyrene	*	126.7	2.5	26.7	57.3	0.4	27.3	5.0	2.9	2.7	3.7	150	Yes	ASL, BIO
Benzo(b)fluoranthene	*	2.4	0.1	0.5	0.8	0.0	0.6	0.1	0.0	0.0	0.0	10,400 [1]	Yes	ASL, BIO
Benzo(ghi)perylene		33.5	1.2	11.2	27.1	0.4	9.4	3.1	1.9	1.9	2.3	170 [1]	Yes	ASL, BIO
Benzo(k)fluoranthene	*	35.4	0.8	6.3	32.1	0.1	9.2	1.6	1.5	1.4	2.0	240 [1]	Yes	ASL, BIO
Chrysene	*	108.4	2.0	25.3	60.2	0.3	28.9	4.5	3.0	2.7	4.0	166	Yes	ASL, BIO
Dibenzo(a,h)anthracene	*	97.0 [2]	1.5	16.1	29.1	0.4	19.7	3.9	3.9	3.6	4.5	33	Yes	ASL, BIO
Fluoranthene		101.7	1.8	21.7	40.2	0.4	23.6	3.1	2.0	1.9	3.5	423	Yes	ASL
Fluorene		64.6	0.5	19.4	11.2	0.2	6.2	0.8	0.5	0.3	0.6	77.4	Yes	ASL, BIO
Indeno(1,2,3-CD)pyrene	*	317.6	10.6	105.9	294.1	2.8	88.2	27.1	18.2	17.6	22.4	17 [1]	Yes	ASL, BIO
Naphthalene		18.2 [2]	0.2	2.4	0.0	0.2	0.5	0.1	0.1	0.0	0.0	176	Yes	ASL
Phenanthrene		137.3	1.9	44.6	36.8	0.3	38.2	4.0	1.9	1.6	2.9	204	Yes	ASL
Pyrene	*	189.7	3.9	36.4	76.9	0.7	38.5	5.6	3.7	3.6	7.2	195	Yes	ASL, BIO
Mean SQG-Q(TEC) (PAHs)		197.5	2.9	37.8	69.0	0.7	27.6	5.3	3.5	3.1	4.3			
Other SVOCs (ug/kg)														
Bis(2-ethylhexyl)phthalate		17.8 [2]	0.1	0.7	2.3	0.2	12.8	1.6	1.8	1.3	0.5	180 [1]	Yes	ASL
Phenol	*	7.6 [2]	0.0	0.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	420 [1]	Yes	BIO
VOCs (ug/kg)														
Carbon Disulfide[3]		---	---	---	1.3	---	---	---	1.0	1.6	0.9	0.851 [1]	Yes	ASL

Notes:

BIO = Potential bioaccumulative or bioconcentrating compound (USEPA, 20

SQG (TEC) = Sediment Quality Guidelines (Threshold Effect Concentration)

Hazard Quotient (HQ) = COPC Concentration divided by SQG

COPEC = Constituent of Potential Ecological Concern

Units: ug = micrograms; kg = kilograms; mg = milligrams

Bold and Highlighted values indicates that HQ > 1.0; Probable ecological effects

Constituents without any SQG are not included in this table.

[1] No TEC available; equivalent ecological screening criterion used

[2] Laboratory could not meet the ESL; the reporting limit was lowered to the lowest possible level (MDL). As a result, HQ>1.0. This may lead to an over estimation of risk.

[3] Commonly used in laboratory chemical (may be a laboratory artifact)

COPEC Selection Rationale:

- Above Screening Level(s) (ASL)
- No Toxicity Criteria (NTC)
- Detection Limit exceeds screening level (DL)
- Bioaccumulating or Bioconcentrating (BIO)

COPEC Elimination Rationale:

- Below Screening Level (BSL)
- Nutrient (NUT)

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Table 5b
COPEC Selection by Hazard Quotient in Sediment - SQG(PEC)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond *(Upstream of Amerbelle - Background)*				Anocoil Pond *(On Amerbelle Property)*			Anocoil Pond *(Anocoil Property)*					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SED-4	SED-5	SED-6	SED-04	SED-1 Amerbelle Cooling Water Discharge	SED-2 Amerbelle Raceway	SED-3 Amerbelle Below Bldg. 1	SED-01 South Shore	SED-02 Behind Dam	SED-03 North Shore	SQG (PEC)	COPEC?	Selection Rationale
Metals (mg/kg)														
Arsenic	*	0.0	0.1	0.2	0.0	0.1	0.1	0.1	0.1	0.1	0.0	33	Yes	BIO
Cadmium	*	0.1	0.1	0.2	0.1	0.2	0.7	0.2	0.4	0.3	0.1	4.98	Yes	ASL, BIO
Chromium	*	0.1	0.2	0.2	0.1	0.2	0.3	0.4	0.2	0.1	0.1	111	Yes	ASL, BIO
Copper	*	---	---	---	0.2	---	---	---	0.4	0.1	0.1	149	Yes	ASL, BIO
Lead	*	0.7	0.5	1.3	1.9	0.5	9.4	2.3	1.0	0.4	0.2	128	Yes	ASL, BIO
Mercury	*	0.0	0.1	0.2	0.0	0.2	11.9	0.2	0.2	0.0	0.0	1.06	Yes	ASL, BIO
Nickel	*	---	---	---	0.2	---	---	---	0.3	0.2	0.1	48.6	Yes	BIO
Zinc	*	---	---	---	0.2	---	---	---	0.3	0.4	0.1	459	Yes	ASL, BIO
Mean SQG-Q(PEC) (metals)		0.2	0.2	0.4	0.3	0.3	4.5	0.6	0.4	0.2	0.1			
PAHs (ug/kg)														
Anthracene		11.0	0.1	2.7	2.4	0.0	1.3	0.2	0.1	0.1	0.1	845	Yes	ASL, BIO
Benzo(a)anthracene	*	20.0	0.2	4.4	8.2	0.0	4.3	0.6	0.4	0.3	0.5	1050	Yes	ASL, BIO
Benzo(a)pyrene	*	13.1	0.3	2.8	5.9	0.0	2.8	0.5	0.3	0.3	0.4	1450	Yes	ASL, BIO
Chrysene	*	14.0	0.3	3.3	7.8	0.0	3.7	0.6	0.4	0.3	0.5	1290	Yes	ASL, BIO
Dibenzo(a,h)anthracene	*	23.7	0.4	3.9	7.1	0.1	4.8	1.0	1.0	0.9	1.1	135	Yes	ASL, BIO
Fluoranthene		19.3	0.3	4.1	7.6	0.1	4.5	0.6	0.4	0.4	0.7	2230	Yes	ASL
Fluorene		9.3	0.1	2.8	1.6	0.0	0.9	0.1	0.1	0.0	0.1	536	Yes	ASL, BIO
Naphthalene		5.7	0.1	0.7	0.0	0.1	0.2	0.0	0.0	0.0	0.0	561	Yes	ASL
Phenanthrene		23.9	0.3	7.8	6.4	0.1	6.7	0.7	0.3	0.3	0.5	1170	Yes	ASL
Pyrene	*	24.3	0.5	4.7	9.9	0.1	4.9	0.7	0.5	0.5	0.9	1520	Yes	ASL, BIO
Mean SQG-Q(PEC) (PAHs)		16.4	0.3	3.7	5.7	0.1	3.4	0.5	0.3	0.3	0.5			

Notes:
BIO = Potential bioaccumulative or bioconcentrating compound (USEPA, 2000, Table 4-2)
SQG (PEC) = Sediment Quality Guidelines (Probable Effect Concentration)
Hazard Quotient (HQ) = COPC Concentration divided by SQG
COPEC = Constituent of Potential Ecological Concern
Units: ug = micrograms; kg = kilograms; mg = milligrams
Bold and Highlighted values indicates that the HQ > 0.5; Probable ecological effects

COPEC Selection Rationale:
Above Screening Level(s) (ASL)
No Toxicity Criteria (NTC)
Detection Limit exceeds screening level (DL)
Bioaccumulating or Bioconcentrating (BIO)
COPEC Elimination Rationale:
Below Screening Level (BSL)
Nutrient (NUT)

Table 6
Summary of Constituents Detected in Surface Water
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond *(Upstream of Amerbelle - Background)*				Anocoil Pond *(On Amerbelle Property)*			Anocoil Pond *(Anocoil Property)*					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SW-4	SW-5	SW-6	SW-04	SW-1 Amerbelle Cooling Water Discharge	SW-2 Amerbelle Raceway	SW-3 Amerbelle Below Bldg. 1	SW-01 South Shore	SW-02 Behind Dam	SW-03 North Shore	WQC	COPEC	Selection Rationale
General Chemistry														
pH (su)		---	---	---	6.95	---	---	---	7.12	7.08	7.13	Range: 6.5-9	---	---
Specific Conductance (umh/c)		---	---	---	197	---	---	---	197	195	193	NTC	---	---
Hardness ($CaCO_3$)(mg/L)		24.5	25.2	25.5	30.1	24.0	24.6	24.1	29.9	30	30	NTC	---	---
Alkalinity (mg/L)		---	---	---	<20.0	---	---	---	20	20	<20.0	NTC	---	---
Total Organic Carbon (mg/L)		---	---	---	5.2	---	---	---	4.9	4.9	5.1	NTC	---	---
Metals, Total (mg/L)														
Aluminum[1,2]		---	---	---	0.108	---	---	---	0.172	0.136	0.278	0.087	Yes	ASL
Arsenic	*	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	<0.004	0.15	Yes	BIO
Barium		0.022	0.023	0.024	0.029	0.022	0.023	0.022	0.033	0.031	0.035	0.22	No	BSL
Cadmium	*	<0.0001	<0.0001	<0.0001	<0.0002	<0.0001	<0.0001	<0.0001	<0.0002	<0.0002	<0.0002	0.00015	Yes	BIO, DL
Chromium[2]	*	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.086	Yes	BIO
Copper	*	---	---	---	<0.005	---	---	---	<0.005	<0.005	<0.005	0.0093	Yes	BIO
Lead[2]	*	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.002	<0.002	0.005	0.0032	Yes	ASL, BIO
Mercury[2]	*	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	0.00077	Yes	BIO
Nickel[2]	*	---	---	---	0.001	---	---	---	<0.001	<0.001	<0.001	0.052	Yes	BIO
Selenium	*	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	0.005	Yes	BIO, DL
Silver	*	<0.001	<0.001	<0.001	<0.0002	<0.001	<0.001	<0.001	<0.0002	<0.0002	<0.0002	0.00012	Yes	BIO, DL
Zinc	*	---	---	---	0.003	---	---	---	0.003	0.002	0.016	0.12	Yes	BIO
Metals, Dissolved (mg/L)														
Aluminum[1,2]		---	---	---	0.071	---	---	---	0.029	0.128	0.097	0.087	Yes	ASL
Arsenic[1]	*	---	---	---	<0.004	---	---	---	<0.004	<0.004	<0.004	0.15	Yes	BIO
Barium		---	---	---	0.028	---	---	---	0.031	0.029	0.029	0.22	No	BSL
Cadmium	*	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002	0.000125	Yes	BIO, DL
Chromium[2]	*	---	---	---	<0.001	---	---	---	<0.001	<0.001	<0.001	0.042	Yes	BIO
Copper	*	---	---	---	<0.005	---	---	---	<0.005	<0.005	<0.005	0.0048	Yes	BIO, DL
Lead[2]	*	---	---	---	<0.002	---	---	---	<0.002	<0.002	<0.002	0.0012	Yes	BIO, DL
Mercury[1,2]	*	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002	0.0000028	Yes	BIO, DL
Nickel[2]	*	---	---	---	<0.001	---	---	---	<0.001	<0.001	<0.001	0.0289	Yes	BIO
Selenium[1]	*	---	---	---	<0.011	---	---	---	<0.011	<0.011	<0.011	0.005	Yes	BIO, DL
Silver	*	---	---	---	<0.0002	---	---	---	<0.0002	<0.0002	<0.0002	0.00006	Yes	BIO, DL
Zinc	*	---	---	---	0.004	---	---	---	<0.002	<0.002	<0.002	0.065	Yes	BIO
ETPH (mg/L)		---	---	---	<0.067	---	---	---	<0.066	<0.066	<0.066	0.25	No	BSL
PAHs (ug/L)														
2-Methylnaphthalene		<1.0	<1.0	<1.0	<0.94	<1.0	<1.0	<1.0	<0.94	<0.94	<0.94	4.7	No	BSL
Acenaphthene		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15	No	BSL
Acenaphthylene		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	13	No	BSL
Anthracene		<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.02	No	BSL
Benzo(a)anthracene	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.08	4.7	No	BSL
Benzo(a)pyrene	*	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	0.09	0.06	Yes	ASL, BIO
Benzo(b)fluoranthene	*	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.05	<0.05	0.1	2.6	Yes	BIO
Benzo(ghi)perylene		<0.50	<0.50	<0.50	<0.19	<0.50	<0.50	<0.50	<0.19	<0.19	<0.19	0.012	Yes	DL
Benzo(k)fluoranthene[1]	*	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.05	<0.05	0.09	0.06	Yes	ASL, BIO
Chrysene[1]	*	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.05	<0.05	0.1	NTC	Yes	BIO, NTC
Dibenzo(a,h)anthracene[1]	*	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	0.01	0.01	0.03	NTC	Yes	BIO, NTC
Fluoranthene		<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	0.19	0.8	No	BSL
Fluorene		<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10	<0.09	<0.09	<0.09	19	No	BSL
Indeno(1,2,3-CD)pyrene	*	<0.02	<0.02	<0.02	<0.05	<0.02	<0.02	<0.02	<0.05	<0.05	0.06	0.012	Yes	ASL, BIO
Naphthalene		<0.10	<0.10	<0.10	<0.09	<0.10	<0.10	<0.10	<0.09	<0.09	<0.09	21	No	BSL
Phenanthrene		<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	23	No	BSL
Pyrene	*	<0.02	<0.02	<0.02	0.02	<0.02	<0.02	<0.02	0.02	0.03	0.16	4.6	No	BSL
Other SVOCs (ug/L)														
Bis(2-ethylhexyl)phthalate		<0.50	<0.50	<0.50	<0.47	<0.50	<0.50	<0.50	<0.47	<0.47	<0.47	8	No	BSL
Phenol	*	<1.0	<1.0	<1.0	<0.95	<1.0	<1.0	<1.0	<0.98	<0.95	<0.94	160	No	BSL
VOCs (ug/L)														
Carbon Disulfide[3]		---	---	---	<5.0	---	---	---	<5.0	<5.0	<5.0	15	No	BSL
p-Isopropyltoluene[1,4]		---	---	---	<1.0	---	---	---	<1.0	<1.0	<1.0	16	No	BSL

Notes:
8/2017 samples collected following a rain event and during pond refill following drawdown to allow access
Units: ug=micrograms, mg=milligrams, L=liter
---- = not analyzed
< = constituent not detected at the specified laboratory reporting limit
BIO = Potential bioaccumulative or bioconcentrating compound (USEPA, 2000, Table 4-2)
WQC = Water Quality Criteria (See Table 2 of this report)
Bold and Highlighted values indicates that the concentration exceeds the WQC
[1]There are no ecological risk values for these compounds
[2]Metals known to have been used at the Site: Al, Cr, Pb, Hg, Ni
[3]Commonly used in laboratory chemicals and pesticides (may be a laboratory artifact)
[4]Commonly used in heat transfer agents and in wood office furniture/work surfaces and flat water thinned interior paints and tinting bases

COPEC Selection Rationale:
Above Screening Level(s) (ASL)
No Toxicity Criteria (NTC)
Detection Limit exceeds screening level (DL)
Bioaccumulating or Bioconcentrating (BIO)
COPEC Elimination Rationale:
Below Screening Level (BSL)
Nutrient (NUT)

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Table 7
COPEC Selection by Hazard Quotient in Surface Water
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond *(Upstream of Amerbelle - Background)*				Anocoil Pond *(On Amerbelle Property)*			Anocoil Pond *(Anocoil Property)*					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SW-4	SW-5	SW-6	SW-04	SW-1 Amerbelle Cooling Water Discharge	SW-2 Amerbelle Raceway	SW-3 Amerbelle Below Bldg. 1	SW-01 South Shore	SW-02 Behind Dam	SW-03 North Shore	WQC	COPEC	Selection Rationale
Metals, Total (mg/L)														
Aluminum		---	---	---	1.2	---	---	---	2.0	1.6	3.2	0.087	Yes	ASL
Arsenic	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	Yes	BIO
Barium		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.22	No	BSL
Cadmium	*	0.7	0.7	0.7	1.3	0.7	0.7	0.7	1.3	1.3	1.3	0.00015	Yes	BIO, DL
Chromium	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.086	Yes	BIO
Copper	*	---	---	---	0.5	---	---	---	0.5	0.5	0.5	0.0093	Yes	BIO
Lead	*	0.3	0.3	0.3	0.6	0.3	0.3	0.3	0.6	0.6	1.6	0.0032	Yes	ASL, BIO
Mercury	*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.00077	Yes	BIO
Nickel	*	---	---	---	0.0	---	---	---	0.0	0.0	0.0	0.052	Yes	BIO
Selenium	*	1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	0.005	Yes	BIO, DL
Silver	*	8.3	8.3	8.3	1.7	8.3	8.3	8.3	1.7	1.7	1.7	0.00012	Yes	BIO, DL
Zinc	*	---	---	---	0.0	---	---	---	0.0	0.0	0.1	0.12	Yes	BIO
Metals, Dissolved (mg/L)														
Aluminum		---	---	---	0.8	---	---	---	0.3	1.5	1.1	0.087	Yes	ASL
Arsenic		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.15	Yes	BIO
Barium		---	---	---	0.1	---	---	---	0.1	0.1	0.1	0.22	No	BSL
Cadmium	*	---	---	---	1.6	---	---	---	1.6	1.6	1.6	0.000125	Yes	BIO, DL
Chromium	*	---	---	---	0.0	---	---	---	0.0	0.0	0.0	0.042	Yes	BIO
Copper	*	---	---	---	1.0	---	---	---	1.0	1.0	1.0	0.0048	Yes	BIO, DL
Lead	*	---	---	---	1.7	---	---	---	1.7	1.7	1.7	0.0012	Yes	BIO, DL
Mercury		71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	71.4	0.0000028	Yes	BIO, DL
Nickel	*	---	---	---	0.0	---	---	---	0.0	0.0	0.0	0.0289	Yes	BIO
Selenium		1.0	1.0	1.0	2.0	1.0	1.0	1.0	2.0	2.0	2.0	0.005	Yes	BIO, DL
Silver	*	---	---	---	3.3	---	---	---	3.3	3.3	3.3	0.00006	Yes	BIO, DL
Zinc	*	---	---	---	0.1	---	---	---	0.0	0.0	0.0	0.065	Yes	BIO
ETPH (mg/L)		---	---	---	0.3	---	---	---	0.3	0.3	0.3	0.25	No	BSL

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Table 7
COPEC Selection by Hazard Quotient in Surface Water
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

		Paper Mill Pond *(Upstream of Amerbelle - Background)*				Anocoil Pond *(On Amerbelle Property)*			Anocoil Pond *(Anocoil Property)*					
		GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)	GZA (4/22/2015)			Fuss & O'Neill (8/3/2017)					
CONSTITUENT	BIO	SW-4	SW-5	SW-6	SW-04	SW-1 Amerbelle Cooling Water Discharge	SW-2 Amerbelle Raceway	SW-3 Amerbelle Below Bldg. 1	SW-01 South Shore	SW-02 Behind Dam	SW-03 North Shore	WQC	COPEC	Selection Rationale
PAHs (ug/L)														
2-Methylnaphthalene		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	4.7	No	BSL
Acenaphthene		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	No	BSL
Acenaphthylene		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	13	No	BSL
Anthracene		1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.02	No	BSL
Benzo(a)anthracene	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.4	4.7	No	BSL
Benzo(a)pyrene	*	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	6.4	0.06	Yes	ASL, BIO
Benzo(b)fluoranthene	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	Yes	BIO
Benzo(ghi)perylene		41.7	41.7	41.7	15.8	41.7	41.7	41.7	15.8	15.8	15.8	0.012	Yes	DL
Benzo(k)fluoranthene	*	0.3	0.3	0.3	0.8	0.3	0.3	0.3	0.8	0.8	0.8	0.06	Yes	ASL, BIO
Fluoranthene		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.8	No	BSL
Fluorene		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	19	No	BSL
Indeno(1,2,3-CD)pyrene	*	1.7	1.7	1.7	4.2	1.7	1.7	1.7	4.2	4.2	4.2	0.012	Yes	ASL, BIO
Naphthalene		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	21	No	BSL
Phenanthrene		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	23	No	BSL
Pyrene	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.6	No	BSL
Other SVOCs (ug/L)														
Bis(2-ethylhexyl)phthalate		0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	8	No	BSL
Phenol	*	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	160	No	BSL
VOCs (ug/L)														
Carbon Disulfide[2]		---	---	---	0.3	---	---	---	0.3	0.3	0.3	15	No	BSL
p-Isopropyltoluene[1,4]		---	---	---	0.1	---	---	---	0.1	0.1	0.1	16	No	BSL

Notes:
BIO = Potential bioaccumulative or bioconcentrating compound (USEPA, 2000, Table 4-2)
SQG (TEC) = Sediment Quality Guidelines (Threshold Effect Concentration)
Hazard Quotient (HQ) = COPC Concentration divided by SQG
COPEC = Constituent of Potential Ecological Concern
Units: ug = micrograms; kg = kilograms; mg = milligrams
Bold and Highlighted values indicates that HQ > 1.0; Probable ecological effects
Constituents without any SQG are not included in this table.
[1]Laboratory could not meet the ESL; the reporting limit was lowered to the lowest possible level (MDL). As a result, HQ>1.0. This may lead to an over estimation of risk.
[2]Commonly used in laboratory chemical (may be a laboratory artifact)

COPEC Selection Rationale:
Above Screening Level(s) (ASL)
No Toxicity Criteria (NTC)
Detection Limit exceeds screening level (DL)
Bioaccumulating or Bioconcentrating (BIO)
COPEC Elimination Rationale:
Below Screening Level (BSL)
Nutrient (NUT)

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Table 8-1 - Sediment Screening for Sitewide Sample Locations
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Units	Sediment Quality Guideline (PEC)	Site-Specific Background: Paper Mill Pond N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	Sitewide: Anocoil Pond N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	Exceeds Screening Criteria (PEC)?	SQG-Q (PEC)
Metals																
Aluminum	mg/kg	NE	1	1/1	5,450	5,450	5,450	---	3	3/3	3,640	5,247	9,010	3,271	No	---
Arsenic	mg/kg	33	4	4/4	2.3	2.8	5.6	2.2	6	5/6	2.8	3.0	4.3	1.0	No	0.1
Barium	mg/kg	NE	4	4/4	66	63	73	11	6	6/6	65	95	303	105	No	---
Cadmium	mg/kg	4.98	4	1/4	0.48	0.48	0.48	---	6	6/6	1.30	1.54	3.41	1.02	No	0.7
Chromium	mg/kg	111	4	4/4	16.4	16.4	24.5	7.1	6	6/6	22.0	25.1	45.7	14.5	No	0.4
Copper	mg/kg	149	1	1/1	32.5	32.5	32.5	---	3	3/3	20.9	34.0	66.8	28.6	No	0.4
Lead	mg/kg	128.0	4	4/4	133.2	141.9	240.0	80.0	6	6/6	97.7	295.5	1200.0	453.3	Yes	9.4
Mercury	mg/kg	1.06	4	3/4	0.13	0.15	0.26	0.11	6	4/6	0.21	3.30	12.60	6.20	Yes	11.9
Nickel	mg/kg	48.6	1	1/1	9.0	9.0	9.0	---	3	3/3	10.3	11.1	16.3	4.9	No	0.3
Selenium	mg/kg	NE	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Silver	mg/kg	NE	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Zinc	mg/kg	459	1	1/1	69	69	69	---	3	3/3	146	124	181	70	No	0.4
ETPH	mg/kg	NE	1	1/1	520	520	520	---	3	0/3	---	---	ND	---	No	---
PAHs																
2-Methylnaphthalene	ug/kg	NE	4	2/4	124.0	124.0	230.0	149.9	6	1/6	77.0	77.0	77.0	---	No	---
Acenaphthene	ug/kg	NE	4	3/4	990.0	1404.3	3200.0	1628.5	6	6/6	23.0	129.4	640.0	251.0	No	---
Acenaphthylene	ug/kg	NE	4	4/4	1000.0	1720.0	4800.0	2138.0	6	6/6	60.0	59.2	110.0	31.8	No	---
Anthracene	ug/kg	845.0	4	4/4	2,150.0	3,422.8	9,300.0	4,038.5	6	6/6	107.0	267.3	1,100.0	412.2	Yes !	1.3
Benzo(a)anthracene	ug/kg	1,050	4	4/4	6,600	8,615	21,000	8,931	6	6/6	445	1,068	4,500	1,694	Yes !	4.3
Benzo(a)pyrene	ug/kg	1,450	4	4/4	6,300	7,993	19,000	8,074	6	6/6	495	1,050	4,100	1,511	Yes !	2.8
Benzo(b)fluoranthene	ug/kg	NE	4	4/4	6,700	9,735	25,000	10,628	6	6/6	450	1,460	6,400	2,438	No	---
Benzo(ghi)perylene	ug/kg	NE	4	4/4	3,250	3,100	5,700	2,507	6	6/6	355	537	1,600	543	No	---
Benzo(k)fluoranthene	ug/kg	NE	4	4/4	4,600	4,475	8,500	4,232	6	6/6	375	634	2,200	782	No	---
Chrysene	ug/kg	1,290	4	4/4	7,100	8,135	18,000	7,682	6	6/6	580	1,201	4,800	1,779	Yes !	3.7
Dibenzo(a,h)anthracene	ug/kg	135	4	3/4	530	513	960	456	6	6/6	130	199	650	227	Yes !	4.8
Fluoranthene	ug/kg	2,230	4	4/4	13,100	17,488	43,000	18,257	6	6/6	1,070	2,435	10,000	3,735	Yes !	4.5
Fluorene	ug/kg	536.0	4	4/4	1,185.0	1,852.8	5,000.0	2,181.6	6	6/6	42.5	110.5	480.0	181.8	No	0.9
Indeno(1,2,3-CD)pyrene	ug/kg	NE	4	4/4	3,400	3,095	5,400	2,524	6	6/6	345	500	1,500	509	No	---
Naphthalene	ug/kg	561	4	2/4	231	231	420	267	6	5/6	22	35	90	33	No	0.2
Phenanthrene	ug/kg	1,170	4	4/4	8,300	11,245	28,000	11,796	6	6/6	490	1,664	7,800	3,017	Yes !	6.7
Pyrene	ug/kg	1,520	4	4/4	11,050	14,968	37,000	15,800	6	6/6	915	1,927	7,500	2,764	Yes !	4.9
Other SVOCs																
Bis(2-ethylhexyl)phthalate	ug/kg	NE	4	3/4	130	190	420	206	6	6/6	255	546	2,300	867	No	---
Phenol	ug/kg	NE	4	0/4	---	---	ND	---	6	2/6	14	14	20	8	No	---
VOCs																
Carbon Disulfide	ug/kg	NE	1	1/1	1.1	1.1	1.1	---	3	1/3	1.4	1.4	1.4	---	No	---
p-Isopropyltoluene	ug/kg	NE	1	0/1	---	---	ND	---	3	1/3	18	18	18	---	No	---

Mean SQG-Q (PEC)	3.2

NOTES
NE = Not Established; No ecological screening critieria available from published NOAA Screening Quick Reference Tables (2008)
--- = Compound not detected above laboratory detection limits
! = Maximum detected concentration of compound exceeds ecological screening criteria but does not exceed site-specific background
Highlighted cells indicate exceedance of SQG-PEC and background
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
Median, mean, maximum calculated from detected constituent concentrations
SQG-Q = Sediment Quality Guidline Quotient = Mean concentration/SQG
Background Samples (Paper Mill Pond): SED-4, 5, 6 (GZA 2014), SED-04 (F&O 2017)
Anocoil Pond Samples: SED-1, 2, 3 (GZA 2014), SED-01, 02, 03 (F&O 2017)

Table 8-2 - Sediment Screening for Site Sample Locations
Former Anocoil Corporation - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Units	Sediment Quality Guideline (PEC)	Site-Specific Background: Paper Mill Pond N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	Site Property: Lower Anocoil Pond N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	Exceeds Screening Criteria (PEC)?	SQG-Q (PEC)
Metals																
Aluminum	mg/kg	NE	1	1/1	5,450	5,450	5,450	---	3	3/3	3,640	5,247	9,010	2,756	No	---
Arsenic	mg/kg	33	4	4/4	2.3	2.8	5.6	2.2	3	2/3	4.0	4.0	4.3	0.2	No	0.1
Barium	mg/kg	NE	4	4/4	66	63	73	11	3	3/3	32	47	83	26	No	---
Cadmium	mg/kg	4.98	4	1/4	0.48	0.48	0.48	---	3	3/3	1.46	1.25	1.79	0.27	No	0.4
Chromium	mg/kg	111	4	4/4	16.4	16.4	24.5	7.1	3	3/3	13.7	13.9	19.6	3.3	No	0.2
Copper	mg/kg	149	1	1/1	32.5	32.5	32.5	---	3	3/3	20.9	34.0	66.8	23.6	No	0.4
Lead	mg/kg	128.0	4	4/4	133.2	141.9	240.0	80.0	3	3/3	57.3	70.6	128.0	37.6	No	1.0
Mercury	mg/kg	1.06	4	3/4	0.13	0.15	0.26	0.11	3	1/3	0.16	0.16	0.16	---	No	0.2
Nickel	mg/kg	48.6	1	1/1	9.0	9.0	9.0	---	3	3/3	10.3	11.1	16.3	3.3	No	0.3
Selenium	mg/kg	NE	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Silver	mg/kg	NE	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Zinc	mg/kg	459	1	1/1	69	69	69	---	3	3/3	146	124	181	29	No	0.4
ETPH	mg/kg	NE	1	1/1	520	520	520	---	3	0/3	---	---	ND	---	No	---
PAHs																
2-Methylnaphthalene	ug/kg	NE	4	2/4	124.0	124.0	230.0	149.9	3	3/3	---	---	ND	---	No	---
Acenaphthene	ug/kg	NE	4	3/4	990.0	1404.3	3200.0	1628.5	3	3/3	18.0	18.4	28.0	5.7	No	---
Acenaphthylene	ug/kg	NE	4	4/4	1000.0	1720.0	4800.0	2138.0	3	3/3	59.0	57.7	61.0	1.7	No	---
Anthracene	ug/kg	845.0	4	4/4	2,150.0	3,422.8	9,300.0	4,038.5	3	3/3	94.0	94.3	120.0	14.9	No	0.1
Benzo(a)anthracene	ug/kg	1,050	4	4/4	6,600	8,615	21,000	8,931	3	3/3	380	403	510	69	No	0.5
Benzo(a)pyrene	ug/kg	1,450	4	4/4	6,300	7,993	19,000	8,074	3	3/3	430	463	560	68	No	0.4
Benzo(b)fluoranthene	ug/kg	NE	4	4/4	6,700	9,735	25,000	10,628	3	3/3	400	423	500	52	No	---
Benzo(ghi)perylene	ug/kg	NE	4	4/4	3,250	3,100	5,700	2,507	3	3/3	320	343	390	36	No	---
Benzo(k)fluoranthene	ug/kg	NE	4	4/4	4,600	4,475	8,500	4,232	3	3/3	370	397	480	57	No	---
Chrysene	ug/kg	1,290	4	4/4	7,100	8,135	18,000	7,682	3	3/3	500	537	660	84	No	0.5
Dibenzo(a,h)anthracene	ug/kg	135	4	3/4	530	513	960	456	3	3/3	130	133	150	11	Yes !	1.1
Fluoranthene	ug/kg	2,230	4	4/4	13,100	17,488	43,000	18,257	3	3/3	840	1,053	1,500	337	No	0.7
Fluorene	ug/kg	536.0	4	4/4	1,185.0	1,852.8	5,000.0	2,181.6	3	3/3	38.0	36.0	47.0	5.9	No	0.1
Indeno(1,2,3-CD)pyrene	ug/kg	NE	4	4/4	3,400	3,095	5,400	2,524	3	3/3	310	330	380	36	No	---
Naphthalene	ug/kg	561	4	2/4	231	231	420	267	3	2/3	12	12	16	2	No	0.0
Phenanthrene	ug/kg	1,170	4	4/4	8,300	11,245	28,000	11,796	3	3/3	380	433	600	115	No	0.5
Pyrene	ug/kg	1,520	4	4/4	11,050	14,968	37,000	15,800	3	3/3	730	943	1,400	342	No	0.9
Other SVOCs																
Bis(2-ethylhexyl)phthalate	ug/kg	NE	4	3/4	130	190	420	206	3	3/3	230	218	330	61	No	---
Phenol	ug/kg	NE	4	0/4	---	---	ND	---	3	2/3	14	14	20	3	No	---
VOCs																
Carbon Disulfide	ug/kg	NE	1	1/1	1.1	1.1	1.1	---	3	1/3	1.4	1.4	1.4	0.0	No	---
p-Isopropyltoluene	ug/kg	NE	1	0/1	---	---	ND	---	3	1/3	18	18	18	0	No	---

Mean SQG-Q (PEC)	0.4

NOTES
NE = Not Established; No ecological screening critieria available from published NOAA Screening Quick Reference Tables (2008)
--- = Compound not detected above laboratory detection limits
! = Maximum detected concentration of compound exceeds ecological screening criteria but does not exceed site-specific background
Highlighted cells indicate exceedance of SQG-PEC and background
mg/kg = milligrams per kilogram
ug/kg = micrograms per kilogram
Median, mean, maximum calculated from detected constituent concentrations
SQG-Q = Sediment Quality Guidline Quotient = Mean concentration/SQG
Background Samples (Paper Mill Pond): SED-4, 5, 6 (GZA 2014), SED-04 (F&O 2017)
Onsite Anocoil Pond Samples: SED-01, 02, 03 (F&O 2017)

Table 9-1 - Analysis of PAH Mixtures
Background Sample Locations - Paper Mill Pond
Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	C_s (ug/kg)	C_{oc} (ug/g_{oc})	$\log_{10} K_{oc}$	$C_{oc,PAHi,FCVi}$ (ug/g_{oc})	$\Sigma SBTU_{FCV}$
Acenaphthene	1,151	18.49	3.94	491	3.76E-02
Acenaphthylene	1,720	27.63	3.17	452	6.11E-02
Anthracene	3,423	54.98	4.46	594	9.26E-02
Benz(a)anthracene	8,615	138.39	5.58	841	1.65E-01
Benzo(a)pyrene	7,993	128.39	6.00	965	1.33E-01
Benzo(b)fluoranthene	9,735	156.39	6.16	979	1.60E-01
Benzo(k)fluoranthene	4,475	71.89	6.18	981	7.33E-02
Chrysene	8,135	130.68	5.62	844	1.55E-01
Fluoranthene	17,488	280.92	5.00	707	3.97E-01
Fluorene	1,853	29.76	4.14	538	5.53E-02
Naphthalene	917.3	14.74	3.30	385	3.83E-02
Phenanthrene	11,245	180.64	4.49	596	3.03E-01
Pyrene	14,968	240.44	4.84	697	3.45E-01
				$\Sigma ESBTU_{FCV,13}$	2.02
				Estimated $\sum ESBTU_{FCV,TOT}$	23.18
				Likelihood to Contribute to Sediment Toxicity?	Probable

Notes

C_s = Sediment Concentration (ug/kg-dry wt) = Mean concentration for given area

C_{oc} = Organic Sediment Concentration (ug/g-oc) = $(C_s/f_{oc})/1000$

f_{oc} (kg/kg) = Fractional Organic Carbon Content = 0.062 kg/kg

Values for log K_{oc} and $C_{oc,PAHi,FCVi}$ from USEPA, 2003

$\Sigma ESBTU_{FCV,13} = \Sigma(C_{oc}/C_{oc,PAHi,FCVi})$

$\sum ESBTU_{FCV,TOT}$ = 95% Confidence Factor (11.5) * $\sum ESBTU_{FCV,13}$

Likelihood to Contribute to Sediment Toxicity is based on the following condition:

If $\Sigma ESBTU_{FCV,TOT} \leq 1.0$, then risk of harm "Unlikely", Else "Probable"

Background Samples: GZA SED-4, 5, 6; F&O SED-04

Reference

USEPA. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures. Office of Research & Development. EPA-600-R-02-013.

Table 9-2 - Analysis of PAH Mixtures
Anocoil Pond
Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	C_s (ug/kg)	C_{oc} (ug/g_{oc})	$\log_{10} K_{oc}$	$C_{oc,PAHi,FCVi}$ (ug/g_{oc})	$\Sigma SBTU_{FCV}$
Acenaphthene	129	3.82	3.94	491	7.78E-03
Acenaphthylene	59	1.75	3.17	452	3.87E-03
Anthracene	267	7.89	4.46	594	1.33E-02
Benz(a)anthracene	1,068	31.53	5.58	841	3.75E-02
Benzo(a)pyrene	1,050	31.01	6.00	965	3.21E-02
Benzo(b)fluoranthene	1,460	43.10	6.16	979	4.40E-02
Benzo(k)fluoranthene	634	18.72	6.18	981	1.91E-02
Chrysene	1,201	35.47	5.62	844	4.20E-02
Fluoranthene	2,435	71.90	5.00	707	1.02E-01
Fluorene	111	3.26	4.14	538	6.06E-03
Naphthalene	34.7	1.02	3.30	385	2.66E-03
Phenanthrene	1,664	49.14	4.49	596	8.24E-02
Pyrene	1,927	56.89	4.84	697	8.16E-02
				$\Sigma ESBTU_{FCV,13}$	0.47
				Estimated $\sum ESBTU_{FCV,TOT}$	5.45
				Likelihood to Contribute to Sediment Toxicity?	Probable

Notes

C_s = Sediment Concentration (ug/kg-dry wt) = Mean concentration for given area

C_{oc} = Organic Sediment Concentration (ug/g-oc) = $(C_s/f_{oc})/1000$

f_{oc} (kg/kg) = Fractional Organic Carbon Content = 0.034kg/kg

Values for log K_{oc} and $C_{oc,PAHi,FCVi}$ from USEPA, 2003

$\Sigma ESBTU_{FCV,13} = \Sigma(C_{oc}/C_{oc,PAHi,FCVi})$

$\sum ESBTU_{FCV,TOT}$ = 95% Confidence Factor (11.5) * $\sum ESBTU_{FCV,13}$

Likelihood to Contribute to Sediment Toxicity is based on the following condition:

If $\Sigma ESBTU_{FCV,TOT} \leq 1.0$, then risk of harm "Unlikely", Else "Probable"

Anocoil Samples: F&O SED-01, 02, 03

Reference

USEPA. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures. Office of Research & Development. EPA-600-R-02-013.

Table 9-3 - Analysis of PAH Mixtures
Anocoil Property - Anocoil Pond
Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	C_s (ug/kg)	C_{oc} (ug/g_{oc})	$\log_{10} K_{oc}$	$C_{oc,PAHi,FCVi}$ (ug/g_{oc})	$\Sigma SBTU_{FCV}$
Acenaphthene	18	0.80	3.94	491	1.62E-03
Acenaphthylene	58	2.50	3.17	452	5.53E-03
Anthracene	94	4.09	4.46	594	6.88E-03
Benz(a)anthracene	403	17.49	5.58	841	2.08E-02
Benzo(a)pyrene	463	20.09	6.00	965	2.08E-02
Benzo(b)fluoranthene	423	18.35	6.16	979	1.87E-02
Benzo(k)fluoranthene	397	17.20	6.18	981	1.75E-02
Chrysene	397	17.20	5.62	844	2.04E-02
Fluoranthene	537	23.27	5.00	707	3.29E-02
Fluorene	36	1.56	4.14	538	2.90E-03
Naphthalene	1,053.3	45.66	3.30	385	1.19E-01
Phenanthrene	36	1.56	4.49	596	2.62E-03
Pyrene	943	40.90	4.84	697	5.87E-02
				$\Sigma ESBTU_{FCV,13}$	0.33
				Estimated $\sum ESBTU_{FCV,TOT}$	3.77
				Likelihood to Contribute to Sediment Toxicity?	**Probable**

Notes

C_s = Sediment Concentration (ug/kg-dry wt) = Mean concentration for given area

C_{oc} = Organic Sediment Concentration (ug/g-oc) = $(C_s/f_{oc})/1000$

f_{oc} (kg/kg) = Fractional Organic Carbon Content = 0.023 kg/kg

Values for log K_{oc} and $C_{oc,PAHi,FCVi}$ from USEPA, 2003

$\Sigma ESBTU_{FCV,13} = \Sigma(C_{oc}/C_{oc,PAHi,FCVi})$

$\sum ESBTU_{FCV,TOT}$ = 95% Confidence Factor (11.5) * $\sum ESBTU_{FCV,13}$

Likelihood to Contribute to Sediment Toxicity is based on the following condition:

If $\Sigma ESBTU_{FCV,TOT} \leq 1.0$, then risk of harm "Unlikely", Else "Probable"

Anocoil Samples: F&O SED-01, 02, 03

Reference

USEPA. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures. Office of Research & Development. EPA-600-R-02-013.

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Table 10-1 - Surface Water Screening for Sitewide Sample Locations

Former Anocoil Corporation - Rockville, Connecticut

Baseline Ecological Risk Assessment

Compound	Units	Water Quality Criteria	Site-Specific Background: Paper Mill Pond						Sitewide: Anocoil Pond						Exceeds Screening Criteria?	WQC-Q
			N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	N	Detection Frequency	Median	Mean	Maximum	Standard Deviation		
Metals, Total (mg/L)																
Aluminum	mg/L	0.087	1	1/1	0.108	0.108	0.108	---	3	3/3	0.172	0.195	0.278	0.074	Yes	3.2
Arsenic	mg/L	0.15	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Barium	mg/L	0.22	4	4/4	0.02	0.02	0.03	0.00	6	6/6	0.03	0.03	0.04	0.01	No	0.2
Cadmium	mg/L	0.00015	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Chromium	mg/L	0.086	4	1/4	0.001	0.001	0.001	---	6	0/6	---	---	ND	---	No	---
Copper	mg/L	0.0093	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Lead	mg/L	0.0032	4	0/4	---	---	ND	---	6	1/6	0.005	0.005	0.005	---	Yes	1.6
Mercury	mg/L	0.00077	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Nickel	mg/L	0.052	1	1/1	0.001	0.001	0.001	---	3	0/3	---	---	ND	---	No	---
Selenium	mg/L	0.005	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Silver	mg/L	0.00012	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Zinc	mg/L	0.12	1	1/1	0.0030	0.0030	0.0030	---	3	3/3	0.0030	0.0070	0.0160	0.0078	No	0.1
Metals, Dissolved (mg/L)																
Aluminum[1]	mg/L	0.087	1	1/1	0.071	0.071	0.071	---	3	3/3	0.113	0.113	0.128	0.022	Yes	1.5
Arsenic	mg/L	0.15	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Barium	mg/L	0.22	1	1/1	0.028	0.028	0.028	---	3	3/3	0.029	0.030	0.031	0.001	Yes	0.1
Cadmium	mg/L	0.000125	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Chromium	mg/L	0.042	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Copper	mg/L	0.0048	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Lead	mg/L	0.0012	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Mercury	mg/L	0.0000028	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Nickel	mg/L	0.0289	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Selenium	mg/L	0.005	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Silver	mg/L	0.00006	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Zinc	mg/L	0.065	1	1/1	0.004	0.004	0.004	---	3	0/3	---	---	ND	---	No	---
ETPH (mg/L)	mg/L	0.25	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
PAHs (ug/L)																
2-Methylnaphthalene	ug/L	4.7	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Acenaphthene	ug/L	15	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Acenaphthylene	ug/L	13	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Anthracene	ug/L	0.02	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Benzo(a)anthracene	ug/L	4.7	4	0/4	---	---	ND	---	6	1/6	0.08	0.08	0.08	---	No	0.0
Benzo(a)pyrene	ug/L	0.06	4	0/4	---	---	ND	---	6	1/6	0.09	0.09	0.09	---	Yes	1.5
Benzo(b)fluoranthene	ug/L	2.6	4	0/4	---	---	ND	---	6	1/6	0.1	0.1	0.1	---	No	0.0

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Table 10-1 - Surface Water Screening for Sitewide Sample Locations

Former Anocoil Corporation - Rockville, Connecticut

Baseline Ecological Risk Assessment

Compound	Units	Water Quality Criteria	Site-Specific Background: Paper Mill Pond						Sitewide: Anocoil Pond						Exceeds Screening Criteria?	WQC-Q
			N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	N	Detection Frequency	Median	Mean	Maximum	Standard Deviation		
PAHs (ug/L)																
Benzo(ghi)perylene	ug/L	0.012	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Benzo(k)fluoranthene	ug/L	0.06	4	0/4	---	---	ND	---	6	1/6	0.09	0.09	0.09	---	Yes	1.5
Chrysene	ug/L	NTC	4	0/4	---	---	ND	---	6	1/6	0.1	0.1	0.1	---	No	---
Dibenzo(a,h)anthracene	ug/L	NTC	4	1/4	0.01	0.01	0.01	---	6	1/6	0.01	0.02	0.03	0.01	No	---
Fluoranthene	ug/L	0.8	4	0/4	---	---	ND	---	6	1/6	0.19	0.19	0.19	---	No	0.2
Fluorene	ug/L	19	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Indeno(1,2,3-CD)pyrene	ug/L	0.012	4	0/4	---	---	ND	---	6	1/6	0.06	0.06	0.06	---	Yes	5.0
Naphthalene	ug/L	21	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Phenanthrene	ug/L	23	4	0/4	---	---	ND	---	6	1/6	0.08	0.08	0.08	---	No	0.0
Pyrene	ug/L	4.6	4	1/4	0.020	0.020	0.020	---	6	3/6	0.030	0.070	0.160	0.078	No	0.0
Other SVOCs (ug/L)																
Bis(2-ethylhexyl)phthalate	ug/L	8	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
Phenol	ug/L	160	4	0/4	---	---	ND	---	6	0/6	---	---	ND	---	No	---
VOCs (ug/L)																
Carbon Disulfide	ug/L	15	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
p-Isopropyltoluene	ug/L	16	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---

Mean WQC-Q	1.1

NOTES

NE = Not Established; No ecological screening critieria available from published sources

! = Compound exceeds ecological screening criteria but does not exceed site-specific background

--- = Compound not detected above laboratory detection limits

mg/L = milligrams per liter

ug/L = micrograms per liter

WQC-Q = Water Qaulity Criteria Quotient = Mean Concentration/WQC

Highlighted cells indicate exceedance of WQC and background

Background Samples (Paper Mill Pond): SW-4, 5, 6 (GZA 2014); SW-04 (F&O 2017)

Sitewide Samples (Anocoil Pond): SW-1, 2, 3 (GZA 2014); SW-01,02,03 (F&O 2017)

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Table 10-2 - Surface Water Screening for Site Sample Locations

Former Anocoil Corporation - Rockville, Connecticut

Baseline Ecological Risk Assessment

Compound	Units	Water Quality Criteria	Site-Specific Background: Paper Mill Pond						Site Property: Lower Anocoil Pond						Exceeds Screening Criteria?	WQC-Q
			N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	N	Detection Frequency	Median	Mean	Maximum	Standard Deviation		
Metals, Total (mg/L)																
Aluminum	mg/L	0.087	1	1/1	0.108	0.108	0.108	---	3	3/3	0.172	0.195	0.278	0.074	Yes	3.2
Arsenic	mg/L	0.15	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Barium	mg/L	0.22	4	4/4	0.02	0.02	0.03	0.00	3	3/3	0.07	0.07	0.13	0.09	No	0.6
Cadmium	mg/L	0.00015	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Chromium	mg/L	0.086	4	1/4	0.001	0.001	0.001	---	3	0/3	---	---	ND	---	No	---
Copper	mg/L	0.0093	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Lead	mg/L	0.0032	4	0/4	---	---	ND	---	3	1/3	0.005	0.005	0.005	---	Yes	1.6
Mercury	mg/L	0.00077	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Nickel	mg/L	0.052	1	1/1	0.001	0.001	0.001	---	3	0/3	---	---	ND	---	No	---
Selenium	mg/L	0.005	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Silver	mg/L	0.00012	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Zinc	mg/L	0.12	1	1/1	0.0030	0.0030	0.0030	---	3	3/3	0.0030	0.0070	0.0160	0.0078	No	0.1
Metals, Dissolved (mg/L)																
Aluminum	mg/L	0.087	1	1/1	0.071	0.071	0.071	---	3	3/3	0.113	0.113	0.128	0.022	Yes	1.5
Arsenic	mg/L	0.15	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Barium	mg/L	0.22	1	1/1	0.028	0.028	0.028	---	3	3/3	0.029	0.030	0.031	0.001	No	0.1
Cadmium	mg/L	0.000125	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Chromium	mg/L	0.042	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Copper	mg/L	0.0048	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Lead	mg/L	0.0012	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Mercury	mg/L	0.0000028	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Nickel	mg/L	0.0289	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Selenium	mg/L	0.005	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Silver	mg/L	0.00006	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Zinc	mg/L	0.065	1	1/1	0.004	0.004	0.004	---	3	0/3	---	---	ND	---	No	---
ETPH (mg/L)	mg/L	0.25	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
PAHs (ug/L)																
2-Methylnaphthalene	ug/L	4.7	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Acenaphthene	ug/L	15	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Acenaphthylene	ug/L	13	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Anthracene	ug/L	0.02	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Benzo(a)anthracene	ug/L	4.7	4	0/4	---	---	ND	---	3	1/3	0.080	0.080	0.080	---	No	0.0
Benzo(a)pyrene	ug/L	0.06	4	0/4	---	---	ND	---	3	1/3	0.090	0.090	0.090	---	Yes	1.5

Table 10-2 - Surface Water Screening for Site Sample Locations

Former Anocoil Corporation - Rockville, Connecticut

Baseline Ecological Risk Assessment

Compound	Units	Water Quality Criteria	Site-Specific Background: Paper Mill Pond						Site Property: Lower Anocoil Pond						Exceeds Screening Criteria?	WQC-Q
			N	Detection Frequency	Median	Mean	Maximum	Standard Deviation	N	Detection Frequency	Median	Mean	Maximum	Standard Deviation		
PAHs (ug/L)																
Benzo(b)fluoranthene	ug/L	2.6	4	0/4	---	---	ND	---	3	1/3	0.10	0.10	0.10	---	No	0.0
Benzo(ghi)perylene	ug/L	0.012	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Benzo(k)fluoranthene	ug/L	0.06	4	0/4	---	---	ND	---	3	1/3	0.09	0.09	0.09	---	Yes	1.5
Chrysene	ug/L	NTC	4	0/4	---	---	ND	---	3	1/3	0.10	0.10	0.10	---	No	---
Dibenzo(a,h)anthracene	ug/L	NTC	4	1/4	0.01	0.01	0.01	---	3	1/3	0.01	0.02	0.03	0.01	No	---
Fluoranthene	ug/L	0.8	4	0/4	---	---	ND	---	3	1/3	0.19	0.19	0.19	---	No	0.2
Fluorene	ug/L	19	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Indeno(1,2,3-CD)pyrene	ug/L	0.012	4	0/4	---	---	ND	---	3	1/3	0.06	0.06	0.06	---	Yes	5.0
Naphthalene	ug/L	21	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Phenanthrene	ug/L	23	4	0/4	---	---	ND	---	3	1/3	0.08	0.08	0.08	---	No	0.0
Pyrene	ug/L	4.6	4	1/4	0.020	0.020	0.020	---	3	3/6	0.030	0.070	0.160	0.078	No	0.0
Other SVOCs (ug/L)																
Bis(2-ethylhexyl)phthalate	ug/L	8	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
Phenol	ug/L	160	4	0/4	---	---	ND	---	3	0/3	---	---	ND	---	No	---
VOCs (ug/L)																
Carbon Disulfide	ug/L	15	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---
p-Isopropyltoluene	ug/L	16	1	0/1	---	---	ND	---	3	0/3	---	---	ND	---	No	---

Mean WQC-Q	1.1

NOTES

NE = Not Established; No ecological screening critieria available from published sources

! = Compound exceeds ecological screening criteria but does not exceed site-specific background

--- = Compound not detected above laboratory detection limits

mg/L = milligrams per liter

ug/L = micrograms per liter

WQC-Q = Water Qaulity Criteria Quotient = Mean Concentration/WQC

Highlighted cells indicate exceedance of WQC and background

Background Samples (Paper Mill Pond): SW-4, 5, 6 (GZA 2014); SW-04 (F&O) 2017)

Onsite Anocoil Pond Samples: SW-01,02,03 (F&O 2017)

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Table 11-1 - Food Chain Exposure Evaluation for Paper Mill Pond (Background)
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,450	0.108	1.00	5450.0	0.0	3976.3	0.0	3976.3	109.7	44.5	36.2	89.4
Arsenic	2.8	0.004	Formula	104.90	82.8	76.5	0.0	159.4	5.1	12.8	31.2	12.5
Barium	63.0	0.025	0.091	0.3	0.0	0.2	0.0	0.2	20.8	41.7	0.0	0.0
Cadmium	0.48	0.000	Formula	223.2	1.0	162.9	0.0	163.8	1.5	20	109.2	8.2
Chromium	16.45	0.001	0.306	0.15	0.0	0.1	0.0	0.1	1	5	0.1	0.0
Copper	32.5	0.005	0.515	8.5	0.3	6.2	0.0	6.4	47	61.7	0.1	0.1
Lead	142	0.001	Formula	13.3	0.5	9.7	0.0	10.2	1.13	11.3	9.1	0.9
Mercury	0.15	0.0002	Formula	0.9	2.2	0.7	0.0	2.8	0.45	0.9	6.3	3.1
Nickel	9.03	0.001	Formula	65.1	0.0	47.5	0.0	47.5	77.4	107	0.6	0.4
Selenium	0.04	0.006	Formula	4.7	0.1	3.4	0.0	3.5	0.5	1	7.1	3.5
Silver	0.001	0.001	2.045	0.1	0.0	0.1	0.0	0.1	NA	NA	---	---
Zinc	69.1	0.003	Formula	8.2	0.0	6.0	0.0	6.0	14.5	131	0.4	0.0
ETPH	520	0.067	1.00	0.0	0.0	0.0	0.0	0.0	NA	NA	---	---
PAHs												
2-Methylnaphthalene	124	0.99	1.00	124.0	0.0	90.5	0.1	90.6	NA	NA	---	---
Acenaphthene	1,404	0.05	1.47	2064.4	1.9	1506.2	0.0	1508.1	NA	NA	---	---
Acenaphthylene	1,720	0.05	22.9	39388.0	21.3	28737.5	0.0	28758.8	NA	NA	---	---
Anthracene	3,423	0.02	2.42	8283.1	26.1	6043.3	0.0	6069.5	NA	NA	---	---
Benzo(a)anthracene	8,615	0.02	1.59	13697.9	52.0	9994.0	0.0	10046.0	NA	NA	---	---
Benzo(a)pyrene	7,993	0.02	1.33	10630.0	130.9	7755.7	0.0	7886.6	NA	NA	---	---
Benzo(b)fluoranthene	9,735	0.03	2.60	25311.0	121.5	18466.9	0.0	18588.4	NA	NA	---	---
Benzo(ghi)perylene	3,100	0.09	2.94	9114.0	148.0	6649.6	0.0	6797.6	NA	NA	---	---
Benzo(k)fluoranthene	4,475	0.03	2.60	11635.0	47.1	8488.9	0.0	8536.0	NA	NA	---	---
Chrysene	8,135	0.03	2.29	18629.2	68.0	13591.8	0.0	13659.9	NA	NA	---	---
Dibenzo(a,h)anthracene	513	0.01	2.31	1185.0	123.7	864.6	0.0	988.3	NA	NA	---	---
Fluoranthene	17,488	0.04	3.04	53162.0	7.8	38787.0	0.0	38794.8	NA	NA	---	---
Fluorene	1,853	0.10	9.57	17730.8	265.8	12936.4	0.0	13202.2	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	3,095	0.03	2.86	8851.7	28.2	6458.2	0.0	6486.4	NA	NA	---	---
Naphthalene	231	0.10	4.40	1016.4	47.0	741.6	0.0	788.6	NA	NA	---	---
Phenanthrene	11,245	0.05	1.72	19341.4	3.5	14111.5	0.0	14115.0	NA	NA	---	---
Pyrene	14,968	0.02	1.75	26193.1	170.9	19110.5	0.0	19281.4	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	190	0.49	1.00	190.3	0.0	138.9	0.1	138.9	1.10	NA	126.3	---
Phenol	0.99	0.99	1.00	1.0	2.9	0.7	0.1	3.8	NA	NA	---	---

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Table 11-1 - Food Chain Exposure Evaluation for Paper Mill Pond (Background)
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
VOCs												
Carbon Disulfide	1.1	5.0	1.00	1.1	0.0	0.8	0.7	1.5	NA	NA	---	---
p-Isopropyltoluene	7.3	1.0	1.00	7.3	0.0	5.3	0.1	5.5	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals; ug/kg for VOCs)

Surface Water Concentration (C_w) = Concentration of COPEC measure in surface water (total metals in mg/L; VOCs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (Assumed to be 1.00 in absence of published value) (EPA, 2003)

Invertebrate Concentration (C_i) = Formulas published in Tables 4a & 4b: Uptake Equations for Inorganics (USEPA, 2003)

Body Weight (BW) = 0.08 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 1.52 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1993)

Water Ingestion Rate (IR_w) = 0.140 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 48 percent (EPA, 1993)

Invertebrate Concentration (C_i) = UF * C_s

Total Exposure (mg/kg/day) = (Ci * IRf * FD)+(Cs * IRs)+(Cw * IRw)* (FAo/FAt)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.00)

Area of Paper Mill Pond = 8 acres

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = Volatile Organic Compounds

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

Background Samples (Paper Mill Pond): SED-4, 5, 6 (GZA 2014), SED-04 (F&O 2017)

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Table 11-2 - Food Chain Exposure Evaluation for Anocoil Pond
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,247	0.195	1.00	5246.7	0.0	3828.0	0.0	3828.0	109.7	44.5	34.9	86.0
Arsenic	3.0	0.004	Formula	102.12	79.7	74.5	0.0	154.3	5.1	12.8	30.2	12.1
Barium	95	0.028	0.091	0.3	0.0	0.2	0.0	0.2	20.8	41.7	0.0	0.0
Cadmium	1.54	0.0002	Formula	310.4	1.5	226.5	0.0	227.9	1.5	20	151.9	11.4
Chromium	25.1	0.001	0.306	0.47	0.0	0.3	0.0	0.4	1	5	0.4	0.1
Copper	34.0	0.005	0.515	12.9	0.4	9.4	0.0	9.8	47	61.7	0.2	0.2
Lead	295.5	0.005	Formula	13.8	0.5	10.1	0.0	10.6	1.13	11.3	9.4	0.9
Mercury	3.3	0.0002	Formula	1.0	4.5	0.7	0.0	5.2	0.45	0.9	11.6	5.8
Nickel	11.1	0.001	Formula	29.0	0.1	21.2	0.0	21.2	77.4	107	0.3	0.2
Selenium	2.1	0.008	Formula	5.4	0.2	3.9	0.0	4.1	0.5	1	8.2	4.1
Silver	0.51	0.001	2.045	4.3	0.0	3.1	0.0	3.2	NA	NA	---	---
Zinc	124	0.007	Formula	68.5	0.0	50.0	0.0	50.0	14.5	131	3.4	0.4
ETPH	69	0.066	1.00	0.0	0.0	0.0	0.0	0.0	NA	NA	---	---
PAHs												
2-Methylnaphthalene	77	0.97	1.00	77.0	0.0	56.2	0.1	56.3	NA	NA	---	---
Acenaphthene	129	0.05	1.47	190.1	1.2	138.7	0.0	139.9	NA	NA	---	---
Acenaphthylene	59	0.05	22.9	1354.9	2.0	988.5	0.0	990.5	NA	NA	---	---
Anthracene	267	0.02	2.42	646.9	0.9	472.0	0.0	472.9	NA	NA	---	---
Benzo(a)anthracene	1,068	0.08	1.59	1697.6	4.1	1238.6	0.0	1242.6	NA	NA	---	---
Benzo(a)pyrene	1,050	0.09	1.33	1396.9	16.2	1019.2	0.0	1035.5	NA	NA	---	---
Benzo(b)fluoranthene	1,460	0.1	2.60	3795.1	16.0	2768.9	0.0	2784.9	NA	NA	---	---
Benzo(ghi)perylene	537	0.35	2.94	1577.8	22.2	1151.2	0.0	1173.4	NA	NA	---	---
Benzo(k)fluoranthene	634	0.09	2.60	1648.0	8.2	1202.4	0.0	1210.5	NA	NA	---	---
Chrysene	1,201	0.1	2.29	2751.1	9.6	2007.2	0.0	2016.8	NA	NA	---	---
Dibenzo(a,h)anthracene	199	0.02	2.31	458.9	18.3	334.8	0.0	353.1	NA	NA	---	---
Fluoranthene	2,435	0.19	3.04	7402.4	3.0	5400.8	0.0	5403.8	NA	NA	---	---
Fluorene	111	0.10	9.57	1057.5	37.0	771.5	0.0	808.6	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	500	0.06	2.86	1428.6	1.7	1042.3	0.0	1044.0	NA	NA	---	---
Naphthalene	35	0.10	4.40	152.7	7.6	111.4	0.0	119.0	NA	NA	---	---
Phenanthrene	1,664	0.08	1.72	2862.4	0.5	2088.4	0.0	2088.9	NA	NA	---	---
Pyrene	1,927	0.07	1.75	3371.7	25.3	2460.0	0.0	2485.3	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	546	0.49	1.00	545.5	0.0	398.0	0.1	398.1	1.10	NA	361.9	---
Phenol	14	0.98	1.00	14.4	8.3	10.5	0.1	18.9	NA	NA	---	---

Table 11-2 - Food Chain Exposure Evaluation for Anocoil Pond
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
VOCs												
Carbon Disulfide	1.4	5.0	1.00	1.4	0.0	1.0	0.7	1.7	NA	NA	---	---
p-Isopropyltoluene	18	1.0	1.00	18.0	0.0	13.1	0.1	13.3	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals; ug/kg for VOCs)

Surface Water Concentration (C_w) = Concentration of COPEC measure in surface water (total metals in mg/L; VOCs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (Assumed to be 1.00 in absence of published value) (EPA, 2003)

Invertebrate Concentration (C_i) = Formulas published in Tables 4a & 4b: Uptake Equations for Inorganics (USEPA, 2003)

Body Weight (BW) = 0.08 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 1.52 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1993)

Water Ingestion Rate (IR_w) = 0.140 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 48 percent (EPA, 1993)

Invertebrate Concentration (C_i) = UF * C_s

Total Exposure (mg/kg/day) = (Ci * IRf * FD)+(Cs * IRs)+(Cw * IRw)* (FAo/FAt)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.00)

Anocoil Pond Area = 0.6 acre

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = Volatile Organic Compounds

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

Anocoil Pond Samples: SED-1, 2, 3 (GZA 2014), SED-01, 02, 03 (F&O 2017)

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Table 11-3 - Food Chain Exposure Evaluation for Anocoil Pond on Site
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,247	0.195	1.00	5246.7	0.0	3828.0	0.0	3828.0	109.7	44.5	34.9	86.0
Arsenic	4.0	0.004	Formula	102.12	79.7	74.5	0.0	154.3	5.1	12.8	30.2	12.1
Barium	46.7	0.033	0.091	0.4	0.1	0.3	0.0	0.3	20.8	41.7	0.0	0.0
Cadmium	1.3	0.0002	Formula	175.8	0.7	128.2	0.0	129.0	1.5	20	86.0	6.4
Chromium	13.9	0.001	0.306	0.38	0.0	0.3	0.0	0.3	1	5	0.3	0.1
Copper	34.0	0.005	0.515	7.2	0.2	5.2	0.0	5.5	47	61.7	0.1	0.1
Lead	70.6	0.005	Formula	13.8	0.5	10.1	0.0	10.6	1.13	11.3	9.4	0.9
Mercury	0.16	0.0002	Formula	0.8	1.1	0.6	0.0	1.7	0.45	0.9	3.7	1.9
Nickel	11.1	0.001	Formula	63.7	0.0	46.4	0.0	46.4	77.4	107	0.6	0.4
Selenium	1.9	0.01	Formula	5.4	0.2	3.9	0.0	4.1	0.5	1	8.2	4.1
Silver	0.45	0.0002	2.045	4.0	0.0	2.9	0.0	2.9	NA	NA	---	---
Zinc	124	0.007	Formula	66.0	0.0	48.1	0.0	48.2	14.5	131	3.3	0.4
ETPH	69	0.066	1.00	0.0	0.0	0.0	0.0	0.0	NA	NA	---	---
PAHs												
2-Methylnaphthalene	9	0.94	1.00	9.2	0.0	6.7	0.1	6.8	NA	NA	---	---
Acenaphthene	18	0.05	1.47	27.0	0.1	19.7	0.0	19.8	NA	NA	---	---
Acenaphthylene	58	0.05	22.9	1320.6	0.3	963.5	0.0	963.8	NA	NA	---	---
Anthracene	94	0.02	2.42	228.3	0.9	166.6	0.0	167.4	NA	NA	---	---
Benzo(a)anthracene	403	0.08	1.59	641.3	1.4	467.9	0.0	469.3	NA	NA	---	---
Benzo(a)pyrene	463	0.09	1.33	616.2	6.1	449.6	0.0	455.7	NA	NA	---	---
Benzo(b)fluoranthene	423	0.1	2.60	1100.7	7.0	803.0	0.0	810.1	NA	NA	---	---
Benzo(ghi)perylene	343	0.19	2.94	1009.4	6.4	736.5	0.0	742.9	NA	NA	---	---
Benzo(k)fluoranthene	397	0.09	2.60	1031.3	5.2	752.5	0.0	757.7	NA	NA	---	---
Chrysene	537	0.1	2.29	1229.0	6.0	896.7	0.0	902.7	NA	NA	---	---
Dibenzo(a,h)anthracene	133	0.02	2.31	308.0	8.2	224.7	0.0	232.9	NA	NA	---	---
Fluoranthene	1,053	0.19	3.04	3202.1	2.0	2336.3	0.0	2338.3	NA	NA	---	---
Fluorene	36	0.09	9.57	344.5	16.0	251.4	0.0	267.4	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	330	0.06	2.86	943.8	0.5	688.6	0.0	689.2	NA	NA	---	---
Naphthalene	12	0.09	4.40	53.9	5.0	39.3	0.0	44.4	NA	NA	---	---
Phenanthrene	433	0.08	1.72	745.3	0.2	543.8	0.0	544.0	NA	NA	---	---
Pyrene	943	0.07	1.75	1650.8	6.6	1204.4	0.0	1211.0	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	218	0.47	1.00	218.0	0.0	159.1	0.1	159.1	1.10	NA	144.7	---
Phenol	14	0.96	1.00	14.4	3.3	10.5	0.1	14.0	NA	NA	---	---

Table 11-3 - Food Chain Exposure Evaluation for Anocoil Pond on Site
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
VOCs												
Carbon Disulfide	1.4	5.0	1.00	1.4	0.0	1.0	0.7	1.7	NA	NA	---	---
p-Isopropyltoluene	18	1.0	1.00	18.0	0.0	13.1	0.1	13.3	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals; ug/kg for VOCs)

Surface Water Concentration (C_w) = Concentration of COPEC measure in surface water (total metals in mg/L; VOCs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (Assumed to be 1.00 in absence of published value) (EPA, 2003)

Invertebrate Concentration (C_i) = Formulas published in Tables 4a & 4b: Uptake Equations for Inorganics (USEPA, 2003)

Body Weight (BW) = 0.08 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 1.52 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1993)

Water Ingestion Rate (IR_w) = 0.140 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 48 percent (EPA, 1993)

Invertebrate Concentration (C_i) = UF * C_s

Total Exposure (mg/kg/day) = (Ci * IRf * FD)+(Cs * IRs)+(Cw * IRw)* (FAo/FAt)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.00)

Area of Anocoil Pond within Property Boundary = 0.5 acres

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = Volatile Organic Compounds

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

Anocoil Pond Site Samples: SED-01, 02, 03 (F&O 2017)

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Table 12-1 - Food Chain Exposure Evaluation for Background Samples
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,450	0.108	1.00	5450.0	30.248	2117.325	0.024	2147.60	2.295	22.952	935.77	93.57
Arsenic	2.8	0.004	Formula	104.90	0.015	40.753	0.001	40.77	0.150	1.498	271.79	27.22
Barium	63.0	0.025	0.091	0.3	0.350	0.099	0.005	0.45	11.8	43.50	0.04	0.01
Cadmium	0.48	0.000	Formula	223.2	0.003	86.717	0.000	86.72	2.12	21.2	40.91	4.09
Chromium	16.45	0.001	0.306	0.15	0.091	0.057	0.000	0.15	7.21	28.88	0.02	0.01
Copper	32.5	0.005	0.515	8.5	0.180	3.291	0.001	3.47	33.4	44.0	0.10	0.08
Lead	142	0.001	Formula	13.3	0.787	5.186	0.000	5.97	17.58	175.83	0.34	0.03
Mercury	0.15	0.0002	Formula	0.9	0.001	0.352	0.000	0.35	0.070	0.352	5.04	1.00
Nickel	9.03	0.001	Formula	65.1	0.050	25.296	0.000	25.35	87.91	175.83	0.29	0.14
Selenium	0.04	0.006	Formula	4.7	0.000	1.809	0.001	1.81	0.440	0.725	4.11	2.50
Silver	0.001	0.001	2.045	0.1	0.000	0.032	0.000	0.03	NA	NA	---	---
Zinc	69.1	0.003	Formula	8.2	0.384	3.205	0.001	3.59	351.7	703.3	0.01	0.01
ETPH	520	0.067	1.00	0.0	2.886	0.000	0.015	2.90	NA	NA	---	---
PAHs												
2-Methylnaphthalene	124	0.99	1.00	124.0	0.688	48.174	0.220	49.08	NA	NA	---	---
Acenaphthene	1,404	0.05	1.47	2064.4	7.794	802.008	0.011	809.81	NA	NA	---	---
Acenaphthylene	1,720	0.05	22.9	39388.0	9.546	15302.238	0.011	15311.80	NA	NA	---	---
Anthracene	3,423	0.02	2.42	8283.1	18.996	3217.967	0.004	3236.97	NA	NA	---	---
Benzo(a)anthracene	8,615	0.02	1.59	13697.9	47.813	5321.615	0.000	5369.43	NA	NA	---	---
Benzo(a)pyrene	7,993	0.02	1.33	10630.0	44.358	4129.765	0.004	4174.13	1.19	11.89	3507.67	351.06
Benzo(b)fluoranthene	9,735	0.03	2.60	25311.0	54.029	9833.324	0.006	9887.36	NA	NA	---	---
Benzo(ghi)perylene	3,100	0.09	2.94	9114.0	17.205	3540.789	0.019	3558.01	NA	NA	---	---
Benzo(k)fluoranthene	4,475	0.03	2.60	11635.0	24.836	4520.198	0.006	4545.04	NA	NA	---	---
Chrysene	8,135	0.03	2.29	18629.2	45.149	7237.425	0.006	7282.58	NA	NA	---	---
Dibenzo(a,h)anthracene	513	0.01	2.31	1185.0	2.847	460.384	0.002	463.23	NA	NA	---	---
Fluoranthene	17,488	0.04	3.04	53162.0	97.056	20653.437	0.009	20750.50	NA	NA	---	---
Fluorene	1,853	0.10	9.57	17730.8	10.283	6888.423	0.022	6898.73	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	3,095	0.03	2.86	8851.7	17.177	3438.885	0.006	3456.07	NA	NA	---	---
Naphthalene	231	0.10	4.40	1016.4	1.282	394.871	0.022	396.18	NA	NA	---	---
Phenanthrene	11,245	0.05	1.72	19341.4	62.410	7514.134	0.011	7576.55	NA	NA	---	---
Pyrene	14,968	0.02	1.75	26193.1	83.070	10176.029	0.004	10259.10	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	190	0.49	1.00	190.3	1.056	73.945	0.110	75.11	21.8	218	3.45	0.34
Phenol	0.99	0.99	1.00	1.0	0.005	0.385	0.220	0.61	NA	NA	---	---

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Table 12-1 - Food Chain Exposure Evaluation for Background Samples
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

VOCs												
Carbon Disulfide	1.1	5.0	1.00	1.1	0.006	0.427	1.115	1.55	NA	NA	---	---
p-Isopropyltoluene	7.3	1.0	1.00	7.3	0.041	2.836	0.223	3.10	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Mean concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals & ETPH; ug/kg for PAHs, SVOCs & VOCs)

Surface Water Concentration (Cw) = Mean concentration of COPEC measure in surface water (total metals and ETPH in mg/L; PAHs, SVOCs & VOCs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (EPA, 2003)

Body Weight (BW) = 0.017 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 0.555 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1999)

Normalized Water Ingestion Rate (IR_w) = 0.223 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 70 percent (EPA, 1993)

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

Invertebrate Concentration (C_i) = Formulas published in Table 4a: Uptake Equations for Inorganics (USEPA, 2003) (assumed to be UF * $C_{s\ \text{in absence of published formula}}$)

Total Exposure (mg/kg-day) = $(C_i * IR_f * FD)+(C_s * IR_s)+(C_w * IR_w)* (FA_o/FA_t)$

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.0)

Area of Paper Mill Pond = 8 acres

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = volatile organic compounds

Background Samples (Paper Mill Pond): SED-4, 5, 6 (GZA 2014), SED-04 (F&O 2017)

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Table 12-2 - Food Chain Exposure Evaluation for Anocoil Pond
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,247	0.195	1.00	5246.7	29.119	2038.330	0.044	1240.50	2.295	22.952	540.52	54.05
Arsenic	3.0	0.004	Formula	102.12	0.017	39.673	0.001	23.81	0.150	1.498	158.76	15.90
Barium	95	0.028	0.091	0.3	0.530	0.105	0.006	0.38	11.8	43.50	0.03	0.01
Cadmium	1.54	0.0002	Formula	310.4	0.009	120.584	0.000	72.36	2.12	21.2	34.13	3.41
Chromium	25.1	0.001	0.306	0.47	0.139	0.183	0.000	0.19	7.21	28.88	0.03	0.01
Copper	34.0	0.005	0.515	12.9	0.189	5.026	0.001	3.13	33.4	44.0	0.09	0.07
Lead	295.5	0.005	Formula	13.8	1.640	5.374	0.001	4.21	17.58	175.83	0.24	0.02
Mercury	3.3	0.0002	Formula	1.0	0.018	0.384	0.000	0.24	0.070	0.352	3.45	0.69
Nickel	11.1	0.001	Formula	29.0	0.061	11.263	0.000	6.79	87.91	175.83	0.08	0.04
Selenium	2.1	0.008	Formula	5.4	0.012	2.099	0.002	1.27	0.440	0.725	2.88	1.75
Silver	0.51	0.001	2.045	4.3	0.003	1.668	0.000	1.00	NA	NA	---	---
Zinc	124	0.007	Formula	68.5	0.690	26.619	0.002	16.39	351.7	703.3	0.05	0.02
ETPH	69	0.066	1.00	0.0	0.381	0.000	0.015	0.24	NA	NA	---	---
PAHs												
2-Methylnaphthalene	77	0.97	1.00	77.0	0.427	29.915	0.216	18.33	NA	NA	---	---
Acenaphthene	129	0.05	1.47	190.1	0.718	73.871	0.011	44.76	NA	NA	---	---
Acenaphthylene	59	0.05	22.9	1354.9	0.328	526.385	0.011	316.03	NA	NA	---	---
Anthracene	267	0.02	2.42	646.9	1.484	251.339	0.004	151.70	NA	NA	---	---
Benzo(a)anthracene	1,068	0.08	1.59	1697.6	5.926	659.514	0.000	399.26	NA	NA	---	---
Benzo(a)pyrene	1,050	0.09	1.33	1396.9	5.829	542.712	0.020	329.14	1.19	11.89	276.59	27.68
Benzo(b)fluoranthene	1,460	0.1	2.60	3795.1	8.101	1474.409	0.022	889.52	NA	NA	---	---
Benzo(ghi)perylene	537	0.35	2.94	1577.8	2.979	612.975	0.077	369.62	NA	NA	---	---
Benzo(k)fluoranthene	634	0.09	2.60	1648.0	3.518	640.235	0.020	386.26	NA	NA	---	---
Chrysene	1,201	0.1	2.29	2751.1	6.667	1068.784	0.022	645.28	NA	NA	---	---
Dibenzo(a,h)anthracene	199	0.02	2.31	458.9	1.103	178.290	0.004	107.64	NA	NA	---	---
Fluoranthene	2,435	0.19	3.04	7402.4	13.514	2875.832	0.042	1733.63	NA	NA	---	---
Fluorene	111	0.10	9.57	1057.5	0.613	410.833	0.021	246.88	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	500	0.06	2.86	1428.6	2.772	554.999	0.013	334.67	NA	NA	---	---
Naphthalene	35	0.10	4.40	152.7	0.193	59.316	0.021	35.72	NA	NA	---	---
Phenanthrene	1,664	0.08	1.72	2862.4	9.236	1112.029	0.018	672.77	NA	NA	---	---
Pyrene	1,927	0.07	1.75	3371.7	10.693	1309.893	0.016	792.36	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	546	0.49	1.00	545.5	3.028	211.927	0.108	129.04	21.8	218	5.92	0.59
Phenol	14	0.98	1.00	14.4	0.080	5.594	0.218	3.54	NA	NA	---	---

Table 12-2 - Food Chain Exposure Evaluation for Anocoil Pond
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
VOCs												
Carbon Disulfide	1.4	5.0	1.00	1.4	0.008	0.544	1.115	1.00	NA	NA	---	---
p-Isopropyltoluene	18	1.0	1.00	18.0	0.100	6.993	0.223	4.39	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Mean concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals & PCBs; ug/kg for SVOCs)

Surface Water Concentration (Cw) = Mean concentration of COPEC measure in surface water (total metals in mg/L; SVOCs & PCBs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (EPA, 2003)

Body Weight (BW) = 0.017 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 0.555 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1999)

Normalized Water Ingestion Rate (IR_w) = 0.223 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 70 percent (EPA, 1993)

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

Invertebrate Concentration (C_i) = Formulas published in Table 4a: Uptake Equations for Inorganics (USEPA, 2003) (assumed to be UF * $C_{s\ in\ absence\ of\ published\ formula}$)

Total Exposure (mg/kg-day) = $(C_i * IR_f * FD)+(C_s * IR_s)+(C_w * IR_w)* (FA_o/FA_t)$

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.0)

Anocoil Pond Area = 0.6 acre

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = volatile organic compounds

Anocoil Pond Samples: SED-1, 2, 3 (GZA 2014), SED-01, 02, 03 (F&O 2017)

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Table 12-3 - Food Chain Exposure Evaluation for Anocoil Pond on Site
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals												
Aluminum	5,247	0.195	1.00	5246.7	29.119	2038.330	0.044	1240.50	2.295	22.952	540.52	54.05
Arsenic	4.0	0.004	Formula	102.12	0.022	39.673	0.001	23.82	0.150	1.498	158.78	15.90
Barium	46.7	0.033	0.091	0.4	0.259	0.142	0.007	0.24	11.8	43.50	0.02	0.01
Cadmium	1.3	0.0002	Formula	175.8	0.007	68.289	0.000	40.98	2.12	21.2	19.33	1.93
Chromium	13.9	0.001	0.306	0.38	0.077	0.149	0.000	0.14	7.21	28.88	0.02	0.00
Copper	34.0	0.005	0.515	7.2	0.189	2.789	0.001	1.79	33.4	44.0	0.05	0.04
Lead	70.6	0.005	Formula	13.8	0.392	5.374	0.001	3.46	17.58	175.83	0.20	0.02
Mercury	0.16	0.0002	Formula	0.8	0.001	0.324	0.000	0.19	0.070	0.352	2.78	0.55
Nickel	11.1	0.001	Formula	63.7	0.061	24.730	0.000	14.87	87.91	175.83	0.17	0.08
Selenium	1.9	0.01	Formula	5.4	0.011	2.099	0.002	1.27	0.440	0.725	2.88	1.75
Silver	0.45	0.0002	2.045	4.0	0.003	1.536	0.000	0.92	NA	NA	---	---
Zinc	124	0.007	Formula	66.0	0.690	25.637	0.002	15.80	351.7	703.3	0.04	0.02
ETPH	69	0.066	1.00	0.0	0.381	0.000	0.015	0.24	NA	NA	---	---
PAHs												
2-Methylnaphthalene	9	0.94	1.00	9.2	0.051	3.561	0.210	2.29	NA	NA	---	---
Acenaphthene	18	0.05	1.47	27.0	0.102	10.489	0.011	6.36	NA	NA	---	---
Acenaphthylene	58	0.05	22.9	1320.6	0.320	513.040	0.011	308.02	NA	NA	---	---
Anthracene	94	0.02	2.42	228.3	0.524	88.689	0.004	53.53	NA	NA	---	---
Benzo(a)anthracene	403	0.08	1.59	641.3	2.239	249.145	0.000	150.83	NA	NA	---	---
Benzo(a)pyrene	463	0.09	1.33	616.2	2.572	239.407	0.020	145.20	1.19	11.89	122.02	12.21
Benzo(b)fluoranthene	423	0.1	2.60	1100.7	2.350	427.609	0.022	257.99	NA	NA	---	---
Benzo(ghi)perylene	343	0.19	2.94	1009.4	1.906	392.152	0.042	236.46	NA	NA	---	---
Benzo(k)fluoranthene	397	0.09	2.60	1031.3	2.202	400.673	0.020	241.74	NA	NA	---	---
Chrysene	537	0.1	2.29	1229.0	2.979	477.454	0.022	288.27	NA	NA	---	---
Dibenzo(a,h)anthracene	133	0.02	2.31	308.0	0.740	119.658	0.004	72.24	NA	NA	---	---
Fluoranthene	1,053	0.19	3.04	3202.1	5.846	1244.029	0.042	749.95	NA	NA	---	---
Fluorene	36	0.09	9.57	344.5	0.200	133.846	0.020	80.44	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	330	0.06	2.86	943.8	1.832	366.666	0.013	221.11	NA	NA	---	---
Naphthalene	12	0.09	4.40	53.9	0.068	20.940	0.020	12.62	NA	NA	---	---
Phenanthrene	433	0.08	1.72	745.3	2.405	289.562	0.018	175.19	NA	NA	---	---
Pyrene	943	0.07	1.75	1650.8	5.236	641.349	0.016	387.96	NA	NA	---	---
Other SVOCs												
Bis(2-ethylhexyl)phthalate	218	0.47	1.00	218.0	1.210	84.693	0.105	51.60	21.8	218	2.37	0.24
Phenol	14	0.96	1.00	14.4	0.080	5.594	0.213	3.53	NA	NA	---	---

Table 12-3 - Food Chain Exposure Evaluation for Anocoil Pond on Site
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Surface Water Concentration (C_w)	Invertebrate Uptake Factor (Uf_i)	Invtertebrate Concentration (C_i)	Exposure: Soil	Exposure: Invertebrates	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
VOCs												
Carbon Disulfide	1.4	5.0	1.00	1.4	0.008	0.544	1.115	1.00	NA	NA	---	---
p-Isopropyltoluene	18	1.0	1.00	18.0	0.100	6.993	0.223	4.39	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Mean concentration of COPEC measured in soil or sediment (mg/kg - dry wt for metals & PCBs; ug/kg for SVOCs)

Surface Water Concentration (Cw) = Mean concentration of COPEC measure in surface water (total metals in mg/L; SVOCs & PCBs in ug/L)

Invertebrate Uptake Factor (UF_i) = Rate of COPEC Loading to Invertebrates (unitless) (EPA, 2003)

Body Weight (BW) = 0.017 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 0.555 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 1 percent of IR_f (EPA, 1999)

Normalized Water Ingestion Rate (IR_w) = 0.223 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Invertebrates = 70 percent (EPA, 1993)

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

Invertebrate Concentration (C_i) = Formulas published in Table 4a: Uptake Equations for Inorganics (USEPA, 2003) (assumed to be UF * $C_{s\ in\ absence\ of\ published\ formula}$)

Total Exposure (mg/kg-day) = $(C_i * IR_f * FD)+(C_s * IR_s)+(C_w * IR_w)* (FA_o/FA_t)$

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.0)

Area of Anocoil Pond within Property Boundary = 0.5 acres

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = volatile organic compounds

Anocoil Pond Site Samples: SED-01, 02, 03 (F&O 2017)

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Table 13-1 - Food Chain Exposure Evaluation for Background Sample
Predatory Bird (Red-tailed Hawk - *Buteo jamaicensis*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Mammalian Uptake Factor (UF_m)	Mammalian Concentration (C_m)	Exposure: Mammals	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals									
Aluminum	5,450	1.00	5450.0	479.600	3.84	109.7	44.5	0.03	0.09
Arsenic	2.8	Formula	0.02	0.002	0.00	5.1	12.8	0.00	0.00
Barium	63.0	Formula	0.0	0.004	0.00	20.8	41.70	0.00	0.00
Cadmium	0.48	Formula	0.2	0.018	0.00	1.5	20	0.00	0.00
Chromium	16.45	Formula	1.8	0.160	0.00	1.0	5.0	0.00	0.00
Copper	32.5	Formula	12.7	1.121	0.01	47	61.7	0.00	0.00
Lead	142	Formula	9.7	0.85	0.01	1.13	11.3	0.01	0.00
Mercury	0.15	Formula	0.6	0.054	0.00	0.006	0.06	0.07	0.01
Nickel	9.03	Formula	2.2	0.192	0.00	77.4	107	0.00	0.00
Selenium	0.04	Formula	0.2	0.017	0.00	0.500	1.000	0.00	0.00
Silver	0.001	0.004	0.0	0.00	0.00	NA	NA	---	---
Zinc	69.1	Formula	105.9	9.317	0.07	14.5	131	0.01	0.00
ETPH	520	0.004	2.1	0.183	0.00	NA	NA	---	---
PAHs									
2-Methylnaphthalene	124	0.0	0.0	0.000	0.00	NA	NA	---	---
Acenaphthene	1,404	0.0	0.0	0.000	0.00	NA	NA	---	---
Acenaphthylene	1,720	0.0	0.0	0.000	0.00	NA	NA	---	---
Anthracene	3,423	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(a)anthracene	8,615	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(a)pyrene	7,993	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(b)fluoranthene	9,735	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(ghi)perylene	3,100	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(k)fluoranthene	4,475	0.0	0.0	0.000	0.00	NA	NA	---	---
Chrysene	8,135	0.0	0.0	0.000	0.00	NA	NA	---	---
Dibenzo(a,h)anthracene	513	0.0	0.0	0.000	0.00	NA	NA	---	---
Fluoranthene	17,488	0.0	0.0	0.000	0.00	NA	NA	---	---
Fluorene	1,853	0.0	0.0	0.000	0.00	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	3,095	0.0	0.0	0.000	0.00	NA	NA	---	---
Naphthalene	231	0.0	0.0	0.000	0.00	NA	NA	---	---
Phenanthrene	11,245	0.0	0.0	0.000	0.00	NA	NA	---	---
Pyrene	14,968	0.0	0.0	0.000	0.00	NA	NA	---	---
Other SVOCs									
Bis(2-ethylhexyl)phthalate	190	0.0	0.0	0.000	0.00	1.11	NA	0.00	---
Phenol	0.99	0.0	0.0	0.000	0.00	NA	NA	---	---
VOCs									
Carbon Disulfide	1.1	0.0	0.000	0.000	0.00	NA	NA	---	---
p-Isopropyltoluene	7.3	0.0	0.000	0.000	0.00	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Concentration of COPEC measured in soil or sediment (mg/kg - dry wt)

Surface Water Concentration (Cw) = Concentration of COPEC measure in surface water (total mg/L)

Mammalian Uptake Factor (UFm) = Rate of COPEC Loading to Small Mammala (unitless) (Assumed to be 1.00 in absence of published value) (EPA, 2003)

Body Weight (BW) = 1.130 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 0.110 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 0.0 percent of IR_f (EPA, 1993)

Water Ingestion Rate (IR_w) = 0.0 mg/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Small Mammals = 80 percent (EPA, 1993)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

Mammalian Concentration (C_m) = UF * C_s

Total Exposure (mg/kg-day) = (Cm * IR_f * FD)* (FA_o/FA_t)

Area of Paper Mill Pond = 8 acres

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 0.008)

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = Volatile Organic Compounds

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

Background Samples (Paper Mill Pond): SED-4, 5, 6 (GZA 2014), SED-04 (F&O 2017)

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Table 13-2 - Food Chain Exposure Evaluation for Anocoil Pond
Predatory Bird (Red-tailed Hawk - *Buteo jamaicensis*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Sediment Concentration (C_s)	Mammalian Uptake Factor (UF_m)	Mammalian Concentration (C_m)	Exposure: Mammals	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals									
Aluminum	5,247	1.00	5246.7	461.707	0.28	109.7	44.5	0.00	0.01
Arsenic	3.0	Formula	0.02	0.002	0.00	5.1	12.8	0.00	0.00
Barium	95	Formula	0.1	0.006	0.00	20.8	41.70	0.00	0.00
Cadmium	1.54	Formula	0.3	0.031	0.00	1.5	20	0.00	0.00
Chromium	25.1	Formula	2.5	0.218	0.00	1.0	5.0	0.00	0.00
Copper	34.0	Formula	12.8	1.128	0.00	47	61.7	0.00	0.00
Lead	295.5	Formula	13.4	1.17	0.00	1.13	11.3	0.00	0.00
Mercury	3.3	Formula	0.0	0.000	0.00	0.006	0.06	0.00	0.00
Nickel	11.1	Formula	2.4	0.211	0.00	77.4	107	0.00	0.00
Selenium	2.1	Formula	0.9	0.077	0.00	0.500	1.000	0.00	0.00
Silver	0.51	0.004	0.0	0.00	0.00	NA	NA	---	---
Zinc	124	Formula	110.4	9.712	0.01	14.5	131	0.00	0.00
ETPH	69	0.004	0.3	0.024	0.00	NA	NA	---	---
PAHs									
2-Methylnaphthalene	77	0.0	0.0	0.000	0.00	NA	NA	---	---
Acenaphthene	129	0.0	0.0	0.000	0.00	NA	NA	---	---
Acenaphthylene	59	0.0	0.0	0.000	0.00	NA	NA	---	---
Anthracene	267	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(a)anthracene	1,068	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(a)pyrene	1,050	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(b)fluoranthene	1,460	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(ghi)perylene	537	0.0	0.0	0.000	0.00	NA	NA	---	---
Benzo(k)fluoranthene	634	0.0	0.0	0.000	0.00	NA	NA	---	---
Chrysene	1,201	0.0	0.0	0.000	0.00	NA	NA	---	---
Dibenzo(a,h)anthracene	199	0.0	0.0	0.000	0.00	NA	NA	---	---
Fluoranthene	2,435	0.0	0.0	0.000	0.00	NA	NA	---	---
Fluorene	111	0.0	0.0	0.000	0.00	NA	NA	---	---
Indeno(1,2,3-CD)pyrene	500	0.0	0.0	0.000	0.00	NA	NA	---	---
Naphthalene	35	0.0	0.0	0.000	0.00	NA	NA	---	---
Phenanthrene	1,664	0.0	0.0	0.000	0.00	NA	NA	---	---
Pyrene	1,927	0.0	0.0	0.000	0.00	NA	NA	---	---
Other SVOCs									
Bis(2-ethylhexyl)phthalate	546	0.0	0.0	0.000	0.00	1.11	NA	0.00	---
Phenol	14	0.0	0.0	0.000	0.00	NA	NA	---	---
VOCs									
Carbon Disulfide	1.4	0.0	0.000	0.000	0.00	NA	NA	---	---
p-Isopropyltoluene	18	0.0	0.000	0.000	0.00	NA	NA	---	---

NOTES

Soil/Sediment Concentration (C_s) = Concentration of COPEC measured in soil or sediment (mg/kg - dry wt)

Surface Water Concentration (Cw) = Concentration of COPEC measure in surface water (total mg/L)

Mammalian Uptake Factor (UFm) = Rate of COPEC Loading to Small Mammala (unitless) (Values of 0.0 assumed to be negligible) (EPA, 2003)

Body Weight (BW) = 1.130 kg (EPA, 1993)

Normalized Food Ingestion Rate (IR_f) = 0.110 kg/kg-day (EPA, 1993)

Soil/Sediment Ingestion Rate (IR_s) = 0.0 percent of IR_f (EPA, 1993)

Water Ingestion Rate (IR_w) = 0.0 mg/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Small Mammals = 80 percent (EPA, 1993)

In the absence of detected COPEC concentrations, average laboratory detection limits were used

Mammalian Concentration (C_m) = UF * C_s

Total Exposure (mg/kg-day) = (Cm * IR_f * FD)* (FA_o/FA_t)

Anocoil Pond Area = 0.6 acre

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 0.0006)

NA = Toxicity effects concentration not available

--- = HQ could no be calculated because effects level not available

VOCs = Volatile Organic Compounds

NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)

LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)

Anocoil Pond Samples: SED-1, 2, 3 (GZA 2014), SED-01, 02, 03 (F&O 2017)

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Table 14-1 - Food Chain Exposure Evaluation for Paper Mill Pond (Background)
Piscivorous Bird (Belted Kingfisher - *Ceryle alcyon*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Surface Water Concentration (C_w)	Fish Uptake Factor (UF_f)	Fish Concentration (C_f)	Exposure: Fish	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
TOTAL METALS										
Aluminum	0.108	1	0.108	0.054	0.012	0.033	109.7	NA	0.00	---
Arsenic	0.004	Formula	0.000	0.000	0.000	0.000	5.1	12.8	0.00	0.00
Barium	0.0245	1	0.025	0.012	0.003	0.007	20.8	41.7	0.00	0.00
Cadmium	0.000125	Formula	0.004	0.002	0.000	0.001	1.45	20	0.00	0.00
Chromium	0.001	Formula	0.000	0.000	0.000	0.000	1	5	0.00	0.00
Copper	0.005	Formula	2.842	1.421	0.001	0.711	47	61.7	0.02	0.01
Lead	0.00125	Formula	0.104	0.052	0.000	0.026	1.13	11.3	0.02	0.00
Mercury	0.0002	1	0.000	0.000	0.000	0.000	0.45	0.9	0.00	0.00
Nickel	0.001	Formula	0.015	0.007	0.000	0.004	77.4	107	0.00	0.00
Selenium	0.00625	1	0.006	0.003	0.001	0.002	0.5	1	0.00	0.00
Silver	0.0008	1	0.001	0.000	0.000	0.000	NA	NA	---	---
Zinc	0.003	Formula	52.095	26.048	0.000	13.024	14.5	131	0.90	0.10
ETPH	0.067	1	0.067	0.034	0.007	0.020	NA	NA	---	---
PAHs										
2-Methylnaphthalene	0.985	1	0.985	0.493	0.108	0.300	NA	NA	---	---
Acenaphthene	0.05	1	0.05	0.025	0.006	0.015	NA	NA	---	---
Acenaphthylene	0.05	1	0.05	0.025	0.006	0.015	NA	NA	---	---
Anthracene	0.02	1	0.02	0.010	0.002	0.006	NA	NA	---	---
Benzo(a)anthracene	0.02	1	0.02	0.010	0.002	0.006	NA	NA	---	---
Benzo(a)pyrene	0.02	1	0.02	0.010	0.002	0.006	NA	NA	---	---
Benzo(b)fluoranthene	0.0275	1	0.0275	0.014	0.003	0.008	NA	NA	---	---
Benzo(ghi)perylene	0.085	1	0.085	0.043	0.009	0.026	NA	NA	---	---
Benzo(k)fluoranthene	0.0275	1	0.0275	0.014	0.003	0.008	NA	NA	---	---
Chrysene	0.0275	1	0.0275	0.014	0.003	0.008	NA	NA	---	---
Dibenzo(a,h)anthracene	0.01	1	0.01	0.005	0.001	0.003	NA	NA	---	---
Fluoranthene	0.04	1	0.04	0.020	0.004	0.012	NA	NA	---	---
Fluorene	0.0975	1	0.0975	0.049	0.011	0.030	NA	NA	---	---
Indeno (1,2,3-cd)pyrene	0.0275	1	0.0275	0.014	0.003	0.008	NA	NA	---	---
Naphthalene	0.0975	1	0.0975	0.049	0.011	0.030	NA	NA	---	---
Phenanthrene	0.05	1	0.05	0.025	0.006	0.015	NA	NA	---	---
Pyrene	0.02	1	0.02	0.010	0.002	0.006	NA	NA	---	---
Other SVOCs										
Bis(2-ethylhexyl)phthalate	0.4925	1	0.4925	0.246	0.054	0.150	1.1	NA	0.14	---
Phenol	0.9875	1	0.9875	0.494	0.109	0.301	NA	NA	---	---
VOCs										
Carbon Disulfide	5	1	5	2.5	0.55	1.525	NA	NA	---	---
p-Isopropyltoluene	1	1	1	0.5	0.11	0.305	NA	NA	---	---

Surface Water Concentration (Cw) = Concentration of COPEC measure in surface water (t

Fish Uptake Factor (Uf_f) = Rate of COPEC Loading to Small Mammala (unitless) (Assume
Body Weight (BW) = 0.147 kg (EPA, 1999)
Water Ingestion Rate (IR_w) = 0.11 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Fish = 100 percent
Fish Concentration (C_f) = UF * C_s
Total Exposure (mg/kg-day) = (C_f * IR_f * FD)* (FA_o/FA_t)

On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Ass
NA = Toxicity effects concentration not available
--- = HQ could no be calculated because effects level not available
SVOCs = Semi-Volatile Organic Compounds
PAHs = polycyclic aromatic hydrocarbons
NOAEL = No Observable Adverse Effect Level
LOAEL = Lowest Observable Adverse Effect Level

Length of Paper Mill Pond = 0.28 mile; Length of Anocoil Pond = 0.04 mile

Note that the homerange for kingfisher is typically expressed in linear miles of shoreline, and averages 0.6 miles. The length of Paper Mill Pond is 0.28 mile. Exposure to background contaminants is based on 50% of its home range.

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Table 14-2 - Food Chain Exposure Evaluation for Anocoil Pond
Piscivorous Bird (Belted Kingfisher - *Ceryle alcyon*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Surface Water Concentration (C_w)	Fish Uptake Factor (UF_f)	Fish Concentration (C_f)	Exposure: Fish	Exposure: Water	Total Exposure	NOAEL	LOAEL	HQ_{NOAEL}	HQ_{LOAEL}
TOTAL METALS										
Aluminum	0.195	1	0.195	0.097666667	0.021486667	0.0071492	109.7	NA	0.00	---
Arsenic	0.004	Formula	0.000	4.27039E-05	0.00044	2.89622E-05	5.1	12.8	0.00	0.00
Barium	0.028	1	0.028	0.013833333	0.003043333	0.0010126	20.8	41.7	0.00	0.00
Cadmium	0.00015	Formula	0.004	0.00222324	0.0000165	0.000134384	1.45	20	0.00	0.00
Chromium	0.001	Formula	0.000	0.000181535	0.00011	1.74921E-05	1	5	0.00	0.00
Copper	0.005	Formula	2.842	1.421017206	0.00055	0.085294032	47	61.7	0.00	0.00
Lead	0.005	Formula	0.104	0.051820828	0.00055	0.00314225	1.13	11.3	0.00	0.00
Mercury	0.0002	1	0.000	0.0001	0.000022	0.00000732	0.45	0.9	0.00	0.00
Nickel	0.001	Formula	0.015	0.007397185	0.00011	0.000450431	77.4	107	0.00	0.00
Selenium	0.0075	1	0.008	0.00375	0.000825	0.0002745	0.5	1	0.00	0.00
Silver	0.0006	1	0.001	0.0003	0.000066	0.00002196	NA	NA	---	---
Zinc	0.007	Formula	55.307	27.65334102	0.00077	1.659246661	14.5	131	0.11	0.01
ETPH	0.066	1	0.066	0.033	0.00726	0.0024156	NA	NA	---	---
PAHs										
2-Methylnaphthalene	0.97	1	0.97	0.485	0.1067	0.035502	NA	NA	---	---
Acenaphthene	0.05	1	0.05	0.025	0.0055	0.00183	NA	NA	---	---
Acenaphthylene	0.05	1	0.05	0.025	0.0055	0.00183	NA	NA	---	---
Anthracene	0.02	1	0.02	0.01	0.0022	0.000732	NA	NA	---	---
Benzo(a)anthracene	0.08	1	0.08	0.04	0.0088	0.002928	NA	NA	---	---
Benzo(a)pyrene	0.09	1	0.09	0.045	0.0099	0.003294	NA	NA	---	---
Benzo(b)fluoranthene	0.1	1	0.1	0.05	0.011	0.00366	NA	NA	---	---
Benzo(ghi)perylene	0.345	1	0.345	0.1725	0.03795	0.012627	NA	NA	---	---
Benzo(k)fluoranthene	0.09	1	0.09	0.045	0.0099	0.003294	NA	NA	---	---
Chrysene	0.1	1	0.1	0.05	0.011	0.00366	NA	NA	---	---
Dibenzo(a,h)anthracene	0.017	1	0.017	0.008333333	0.001833333	0.00061	NA	NA	---	---
Fluoranthene	0.19	1	0.19	0.095	0.0209	0.006954	NA	NA	---	---
Fluorene	0.095	1	0.095	0.0475	0.01045	0.003477	NA	NA	---	---
Indeno (1,2,3-cd)pyrene	0.06	1	0.06	0.03	0.0066	0.002196	NA	NA	---	---
Naphthalene	0.095	1	0.095	0.0475	0.01045	0.003477	NA	NA	---	---
Phenanthrene	0.08	1	0.08	0.04	0.0088	0.002928	NA	NA	---	---
Pyrene	0.07	1	0.07	0.035	0.0077	0.002562	NA	NA	---	---
Other SVOCs										
Bis(2-ethylhexyl)phthalate	0.485	1	0.485	0.2425	0.05335	0.017751	1.1	NA	0.02	---
Phenol	0.978	1	0.978	0.489166667	0.107616667	0.035807	NA	NA	---	---
VOCs										
Carbon Disulfide[3]	5	1	5	2.5	0.55	0.183	NA	NA	---	---
p-Isopropyltoluene[1,4]	1	1	1	0.5	0.11	0.0366	NA	NA	---	---

Surface Water Concentration (Cw) = Concentration of COPEC measure in surface water (total metals in mg/L; SVOCs & PCBs in ug/L)
Fish Uptake Factor (Uf_f) = Rate of COPEC Loading to Small Mammala (unitless) (Assumed to be 1.00 in absence of published value) (EPA, 2003)
Body Weight (BW) = 0.147 kg (EPA, 1999)
Water Ingestion Rate (IR_w) = 0.11 L/kg-day (EPA, 1993)

Fraction of Diet (FD) Comprised of Fish = 100 percent
Fish Concentration (C_f) = UF * C_s
Total Exposure (mg/kg-day) = (C_f * IR_f * FD)* (FA_o/FA_t)
On-site Foraging Area to Total Foraging Area (FA_o/FA_t) = Proportion of home range (Assumed = 1.0)
NA = Toxicity effects concentration not available
--- = HQ could no be calculated because effects level not available
SVOCs = Semi-Volatile Organic Compounds
PAHs = polycyclic aromatic hydrocarbons
NOAEL = No Observable Adverse Effect Level
LOAEL = Lowest Observable Adverse Effect Level

Length of Paper Mill Pond = 0.28 mile; Length of Anocoil Pond = 0.04 mile

Note that the homerange for kingfisher is typically expressed in linear miles of shoreline, and averages 0.6 miles. The length of Anocoil Pond is 0.04 mile. Exposure to background contaminants is based on 6% of its home range.

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Table 15 - Summary of Food Chain Exposure Evaluation
Insectivorous Songbirds (American Robin - *Turdus americanus*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Background		Whole Pond		Site Pond	
	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals						
Aluminum	36.2	89.4	34.9	86.0	34.9	86.0
Arsenic	31.2	12.5	30.2	12.1	30.2	12.1
Barium	0.0	0.0	0.0	0.0	0.0	0.0
Cadmium	109.2	8.2	151.9	11.4	86.0	6.4
Chromium	0.1	0.0	0.4	0.1	0.3	0.1
Copper	0.1	0.1	0.2	0.2	0.1	0.1
Lead	9.1	0.9	9.4	0.9	9.4	0.9
Mercury	6.3	3.1	11.6	5.8	3.7	1.9
Nickel	0.6	0.4	0.3	0.2	0.6	0.4
Selenium	7.1	3.5	8.2	4.1	8.2	4.1
Silver	---	---	---	---	---	---
Zinc	0.4	0.0	3.4	0.4	3.3	0.4
ETPH	---	---	---	---	---	---
PAHs						
2-Methylnaphthalene	---	---	---	---	---	---
Acenaphthene	---	---	---	---	---	---
Acenaphthylene	---	---	---	---	---	---
Anthracene	---	---	---	---	---	---
Benzo(a)anthracene	---	---	---	---	---	---
Benzo(a)pyrene	---	---	---	---	---	---
Benzo(b)fluoranthene	---	---	---	---	---	---
Benzo(ghi)perylene	---	---	---	---	---	---
Benzo(k)fluoranthene	---	---	---	---	---	---
Chrysene	---	---	---	---	---	---
Dibenzo(a,h)anthracene	---	---	---	---	---	---
Fluoranthene	---	---	---	---	---	---
Fluorene	---	---	---	---	---	---
Indeno(1,2,3-CD)pyrene	---	---	---	---	---	---
Naphthalene	---	---	---	---	---	---
Phenanthrene	---	---	---	---	---	---
Pyrene	---	---	---	---	---	---
Other SVOCs						
Bis(2-ethylhexyl)phthalate	126.3	---	361.9	---	144.7	---
Phenol	---	---	---	---	---	---
VOCs						
Carbon Disulfide	---	---	---	---	---	---
p-Isopropyltoluene	---	---	---	---	---	---
# COPEC(s) ≤ 1	5	6	4	6	4	6
# COPEC(s) >1 & ≤ 10	3	3	3	2	4	3
# COPEC(s) > 10	4	2	5	3	4	2
Risk / Magnitude	Risk / High Confidence		Risk / High Confidence		Risk / High Confidence	

NOTES
HQ = Hazard Quotient
NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)
LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)
--- = HQ could not be calculated because effects level not available
Highlight = HQ > 1.0
COPEC = Contaminants of Potential Ecological Concern

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Table 16 - Summary of Food Chain Exposure Evaluation
Insectivorous Mammal (Short-tailed Shrew - *Blarina brevicauda*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Background		Whole Pond		Site Pond	
	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals						
Aluminum	935.77	93.57	540.52	54.05	540.52	54.05
Arsenic	271.79	27.22	158.76	15.90	158.78	15.90
Barium	0.04	0.01	0.03	0.01	0.02	0.01
Cadmium	40.91	4.09	34.13	3.41	19.33	1.93
Chromium	0.02	0.01	0.03	0.01	0.02	0.00
Copper	0.10	0.08	0.09	0.07	0.05	0.04
Lead	0.34	0.03	0.24	0.02	0.20	0.02
Mercury	5.04	1.00	3.45	0.69	2.78	0.55
Nickel	0.29	0.14	0.08	0.04	0.17	0.08
Selenium	4.11	2.50	2.88	1.75	2.88	1.75
Silver	---	---	---	---	---	---
Zinc	0.01	0.01	0.05	0.02	0.04	0.02
ETPH	---	---	---	---	---	---
PAHs						
2-Methylnaphthalene	---	---	---	---	---	---
Acenaphthene	---	---	---	---	---	---
Acenaphthylene	---	---	---	---	---	---
Anthracene	---	---	---	---	---	---
Benzo(a)anthracene	---	---	---	---	---	---
Benzo(a)pyrene	3507.67	351.06	276.59	27.68	122.02	12.21
Benzo(b)fluoranthene	---	---	---	---	---	---
Benzo(ghi)perylene	---	---	---	---	---	---
Benzo(k)fluoranthene	---	---	---	---	---	---
Chrysene	---	---	---	---	---	---
Dibenzo(a,h)anthracene	---	---	---	---	---	---
Fluoranthene	---	---	---	---	---	---
Fluorene	---	---	---	---	---	---
Indeno(1,2,3-CD)pyrene	---	---	---	---	---	---
Naphthalene	---	---	---	---	---	---
Phenanthrene	---	---	---	---	---	---
Pyrene	---	---	---	---	---	---
Other SVOCs						
Bis(2-ethylhexyl)phthalate	3.45	0.34	5.92	0.59	2.37	0.24
Phenol	---	---	---	---	---	---
VOCs						
Carbon Disulfide	---	---	---	---	---	---
p-Isopropyltoluene	---	---	---	---	---	---
# COPEC(s) $\leq$ 1	6	7	6	8	6	8
# COPEC(s) >1 & $\leq$ 10	3	3	3	2	3	2
# COPEC(s) > 10	4	3	4	3	4	3
Risk / Magnitude	Risk / High Confidence		Risk / High Confidence		Risk / High Confidence	

NOTES
- HQ = Hazard Quotient
- NOAEL = No Observable Adverse Effect Level (Sample et al., 1996)
- LOAEL = Lowest Observable Adverse Effect Level (Sample et al., 1996)
- --- = HQ could not be calculated because effects level not available
- Highlight = HQ > 1.0
- COPEC = Contaminants of Potential Ecological Concern

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Table 17 - Summary of Food Chain Exposure Evaluation
Predatory Bird (Red-tailed Hawk - *Buteo jamaicensis*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Background		Sitewide	
	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals				
Aluminum	0.03	0.09	0.00	0.01
Arsenic	0.00	0.00	0.00	0.00
Barium	0.00	0.00	0.00	0.00
Cadmium	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.00	0.00
Copper	0.00	0.00	0.00	0.00
Lead	0.01	0.00	0.00	0.00
Mercury	0.07	0.01	0.00	0.00
Nickel	0.00	0.00	0.00	0.00
Selenium	0.00	0.00	0.00	0.00
Silver	---	---	---	---
Zinc	0.01	0.00	0.00	0.00
ETPH	---	---	---	---
PAHs				
2-Methylnaphthalene	---	---	---	---
Acenaphthene	---	---	---	---
Acenaphthylene	---	---	---	---
Anthracene	---	---	---	---
Benzo(a)anthracene	---	---	---	---
Benzo(a)pyrene	---	---	---	---
Benzo(b)fluoranthene	---	---	---	---
Benzo(ghi)perylene	---	---	---	---
Benzo(k)fluoranthene	---	---	---	---
Chrysene	---	---	---	---
Dibenzo(a,h)anthracene	---	---	---	---
Fluoranthene	---	---	---	---
Fluorene	---	---	---	---
Indeno(1,2,3-CD)pyrene	---	---	---	---
Naphthalene	---	---	---	---
Phenanthrene	---	---	---	---
Pyrene	---	---	---	---
Other SVOCs				
Bis(2-ethylhexyl)phthalate	0.00	---	0.00	---
Phenol	---	---	---	---
VOCs				
Carbon Disulfide	---	---	---	---
p-Isopropyltoluene	---	---	---	---
# COPEC(s) $\leq$ 1	12	11	12	11
# COPEC(s) >1 & $\leq$ 10	0	0	0	0
# COPEC(s) > 10	0	0	0	0
Risk/Magnitude	No Risk/High Confidence		No Risk/High Confidence	

NOTES
HQ = Hazard Quotient
--- = HQ could not be calculated because effects level not available
PAHs = Polycyclic Aromatic Hydrocarbons
NOAEL = No Observable Adverse Effect Level
LOAEL = Lowest Observable Adverse Effect Level
COPEC = Contaminants of Potential Ecological Concern

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Table 18 - Summary of Food Chain Exposure Evaluation
Piscivorous Bird (Belted Kingfisher - *Ceryle alcyon*)
Former Anocoil Corporation Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment

Compound	Background		Sitewide	
	HQ_{NOAEL}	HQ_{LOAEL}	HQ_{NOAEL}	HQ_{LOAEL}
Total Metals				
Aluminum	0.00	---	0.00	---
Arsenic	0.00	0.00	0.00	0.00
Barium	0.00	0.00	0.00	0.00
Cadmium	0.00	0.00	0.00	0.00
Chromium	0.00	0.00	0.00	0.00
Copper	0.02	0.01	0.00	0.00
Lead	0.02	0.00	0.00	0.00
Mercury	0.00	0.00	0.00	0.00
Nickel	0.00	0.00	0.00	0.00
Selenium	0.00	0.00	0.00	0.00
Silver	---	---	---	---
Zinc	0.90	0.10	0.11	0.01
ETPH	---	---	---	---
PAHs				
2-Methylnaphthalene	---	---	---	---
Acenaphthene	---	---	---	---
Acenaphthylene	---	---	---	---
Anthracene	---	---	---	---
Benzo(a)anthracene	---	---	---	---
Benzo(a)pyrene	---	---	---	---
Benzo(b)fluoranthene	---	---	---	---
Benzo(ghi)perylene	---	---	---	---
Benzo(k)fluoranthene	---	---	---	---
Chrysene	---	---	---	---
Dibenzo(a,h)anthracene	---	---	---	---
Fluoranthene	---	---	---	---
Fluorene	---	---	---	---
Indeno(1,2,3-CD)pyrene	---	---	---	---
Naphthalene	---	---	---	---
Phenanthrene	---	---	---	---
Pyrene	---	---	---	---
Other SVOCs				
Bis(2-ethylhexyl)phthalate	0.14	---	0.02	---
Phenol	---	---	---	---
VOCs				
Carbon Disulfide	---	---	---	---
p-Isopropyltoluene	---	---	---	---
# COPEC(s) ≤ 1	12	11	12	11
# COPEC(s) >1 & ≤ 10	0	0	0	0
# COPEC(s) > 10	0	0	0	0
Risk/Magnitude	No Risk/High Confidence		No Risk/High Confidence	

NOTES
HQ = Hazard Quotient
--- = HQ could not be calculated because effects level not available
Highlight = HQ > 1.0
PAHs = Polycyclic Aromatic Hydrocarbons
NOAEL = No Observable Adverse Effect Level
LOAEL = Lowest Observable Adverse Effect Level
COPEC = Contaminants of Potential Ecological Concern

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Tables 23-1 to 23-2 – Weight of Evidence Evaluation

Former Anocoil Corporation - Rockville, Connecticut
Baseline Ecological Risk Assessment

Table 23-1 – Weight of Evidence Evaluation for All of Anocoil Pond

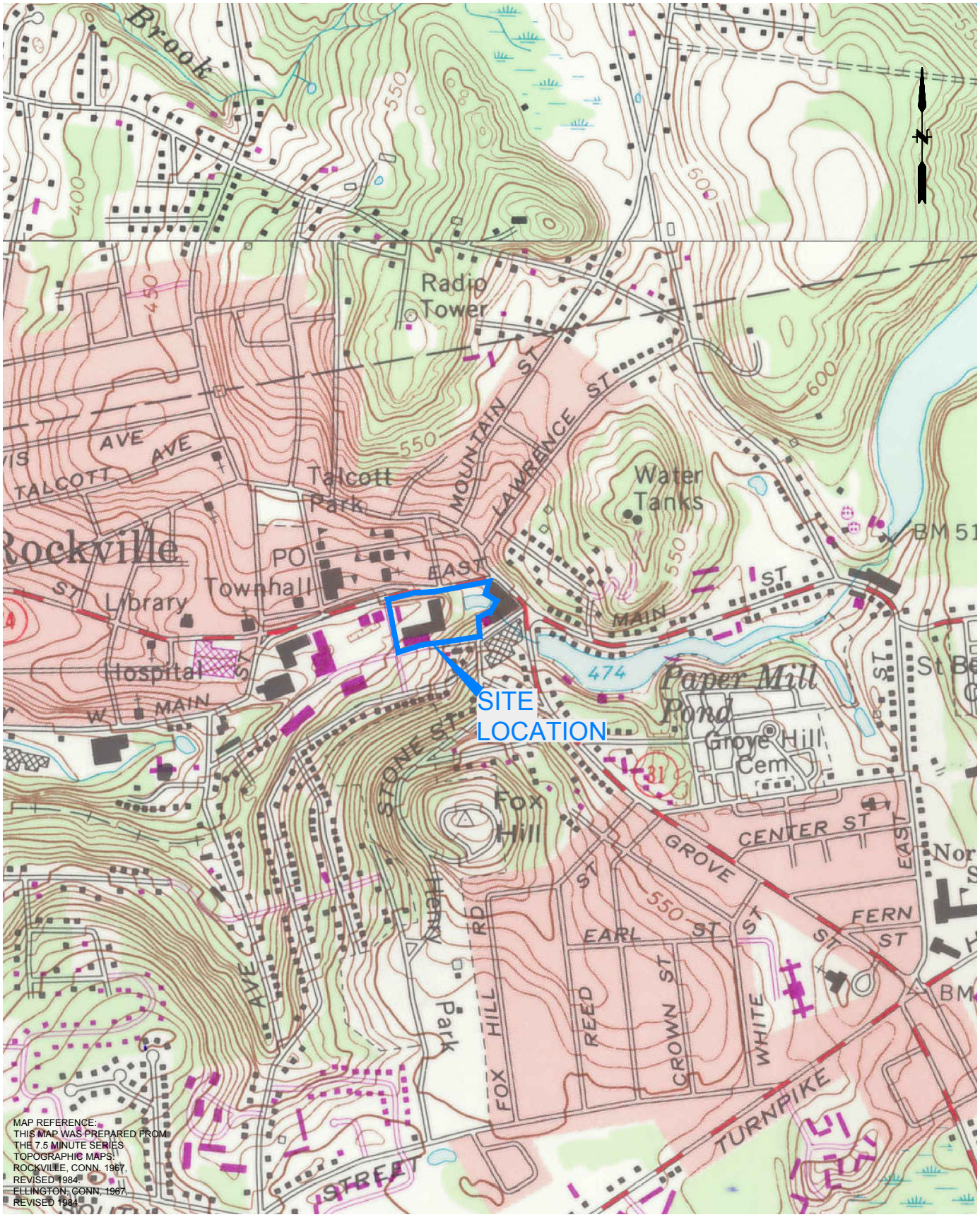
Risk of Harm	Magnitude	Low Weight (1)	Moderate Weight (2)	High Weight (3)
Yes (+)	High (2)		1A, 2, 3A, 3B	
	Low (1)		1B	
Undetermined			*	
No (-)	Low (1)			
	High (2)		3C, 3D	

Table 23-2 – Weight of Evidence Evaluation for the On-site Portion of Anocoil Pond

Risk of Harm	Magnitude	Low Weight (1)	Moderate Weight (2)	High Weight (3)
Yes (+)	High (2)		2, 3A, 3B	
	Low (1)		1B	
Undetermined			*	
No (-)	Low (1)		1A	
	High (2)			

1A = Measurement Endpoint 1a – Bulk Sediment Chemistry; 1B = Measurement Endpoint 1b – Sum PAH Analysis; 2 = Measurement Endpoint 2 – Surface Water Chemistry; 3A = Measurement Endpoint 3a – American Robin; 3B = Measurement Endpoint 3b – Short-tailed Shrew; 3C = Measurement Endpoint 3c – Red-tailed Hawk; 3D = Measurement Endpoint 3d – Belted Kingfisher

Figures



MAP REFERENCE:
THIS MAP WAS PREPARED FROM THE 7.5 MINUTE SERIES TOPOGRAPHIC MAPS:
ROCKVILLE, CONN. 1967, REVISED 1984
ELLINGTON, CONN. 1967, REVISED 1984

SCALE:	
HORZ.:	1" = 1000'
VERT.:	
DATUM:	
HORZ.:	
VERT.:	

0 500 1000
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

SITE LOCATION MAP

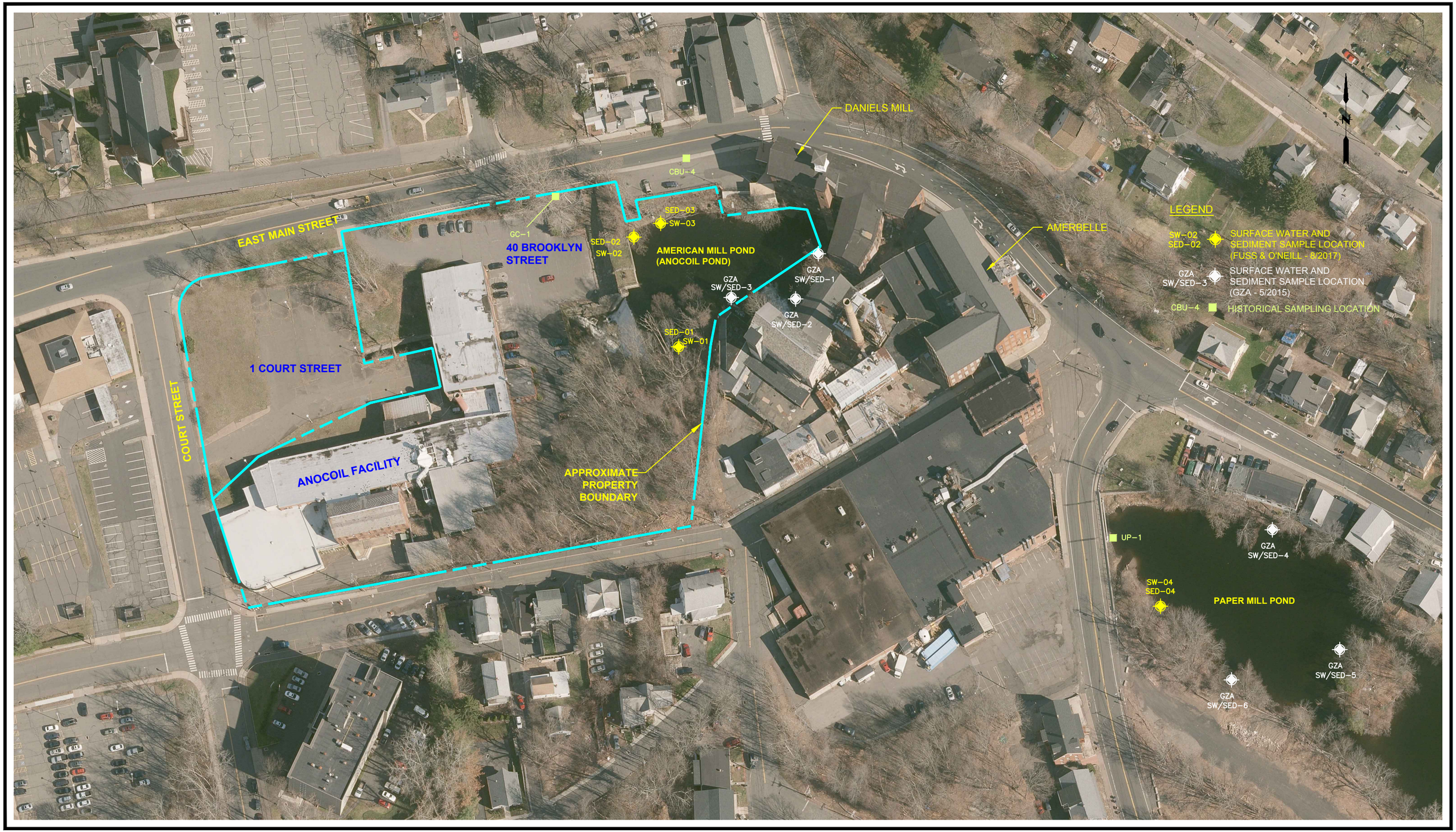
ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.:	2001454P70
DATE:	SEPT 2018

FIGURE 1

File Path: J:\DWG\P2001\454\P20\Environmental\Plan\2001454P20_STP04_site loc.dwg Layout: 08.5X11-P Plotted: Mon, June 15, 2015 - 8:13 AM User: srochelt
Plotter: DWG TO PDF.PC3 CTB File: FO.STB
LAYER STATE:
MS VIEW:



No.	DATE	DESCRIPTION	DESIGNER	REVIEWER
1.			XX/XX	XX

NOTES:
- BASE MAP: 2016 AERIAL PHOTOGRAPH FROM CTECO WEBSITE
- SAMPLING LOCATIONS ARE APPROXIMATE
- GZA SAMPLING LOCATIONS FROM "SURFACE WATER AND SEDIMENT SAMPLE LOCATIONS, PREPARED FOR TOWN OF VERNON, 5/06/15

SCALE:
HORZ.: 1" = 100'
VERT.:
DATUM:
HORZ.:
VERT.:
0 50 100
GRAPHIC SCALE

FUSS & O'NEILL
146 HARTFORD ROAD
MANCHESTER, CONNECTICUT 06040
860.646.2469
www.fando.com

SURFACE WATER AND SEDIMENT SAMPLING LOCATIONS

ANOCOIL CORPORATION

VERNON CONNECTICUT

PROJ. No.: 2001454P70
DATE: SEPT 2018

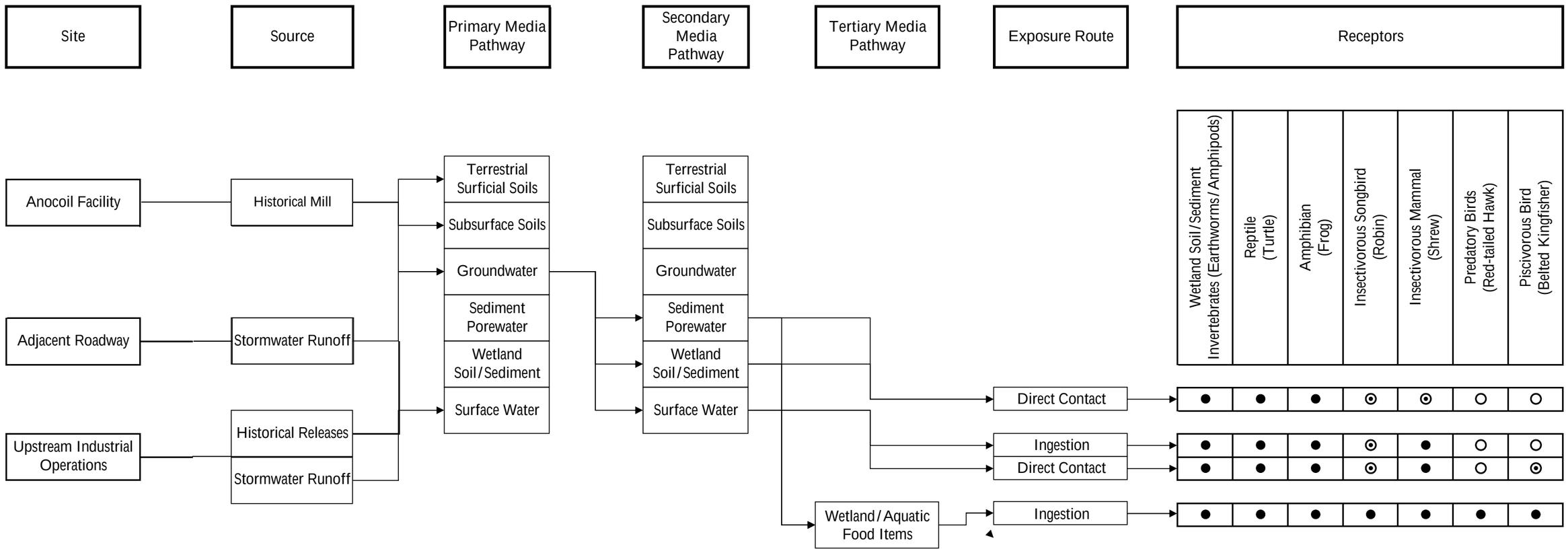
FIGURE 2

File Path: J:\DWG\P2001454P70\Environmental\Plan\2001454P70_SAM01_SW SED aerial.dwg Layout: 11X17-L Plotted: Tue, September 12, 2017 - 8:34 AM User: kvanderveer
MS VIEW: LAYER STATE:
Plotter: DWG TO PDF.PC3 CTB File: FO HALF.STB

FUSS & O'NEILL

Figure 3 - Conceptual Ecological Site Model

Former Anocoil Facility - Rockville, Connecticut
Baseline Ecological Risk Assessment
September 2018



LEGEND	
○	Pathway not complete to receptor; No evaluation is required
⊙	Pathway is complete, but is judged to be minor
●	Pathway is complete and could be significant

Appendix A

Phoenix Laboratories, Inc.
Bulk Chemistry Analytical Reports
2017 Data

PHOENIX
Environmental Laboratories, Inc.

Friday, August 25, 2017

Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Project ID: ANOCOIL ECO RISK
Sample ID#s: BY77751 - BY77763

This laboratory is in compliance with the NELAC requirements of procedures used except where indicated.

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory. This report is incomplete unless all pages indicated in the pagination at the bottom of the page are included.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #M-CT007
ME Lab Registration #CT-007
NH Lab Registration #213693-A,B

NJ Lab Registration #CT-003
NY Lab Registration #11301
PA Lab Registration #68-03530
RI Lab Registration #63
VT Lab Registration #VT11301

REVIEWED **DMS**
By pbibeau at 2:36 pm, Aug 25, 2017

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

August 25, 2017

SDG I.D.: GBY77751

Version 2:
Collection time corrected for BY77756.

Version 3:
Sample comment revisions were made to BY77757 and BY77761.

Version 4:
RCP narrative corrections were made to the SVOASIM narrative.

Added this comment to the RCP narrative:

EPA Reg III FW Screen:
Some compounds were evaluated below the lowest calibration standard in order to meet the requested criteria. The requested criteria could not be achieved for some compounds because the limit of detection (LOD) was greater than the criteria.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	WATER	Collected by:		08/03/17	8:30
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77751

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-01 Trip Blank

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/04/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/04/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/04/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/04/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-01

Trip Blank

Phoenix I.D.: BY77751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	25	ug/L	1	08/04/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/04/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/04/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/04/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Bromomethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/04/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/04/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/04/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/04/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/04/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/04/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/04/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/04/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/04/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/04/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/04/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	08/04/17	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	08/04/17	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	08/04/17	MH	70 - 130 %

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-01

Trip Blank

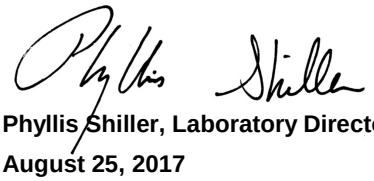
Phoenix I.D.: BY77751

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	97		%	1	08/04/17	MH	70 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/03/17	9:00
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77752

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-02 SW-01

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum	0.172	0.010	mg/L	1	08/05/17	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	08/05/17	LK	SW6010C
Barium	0.033	0.002	mg/L	1	08/05/17	LK	SW6010C
Cadmium	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Copper	< 0.005	0.005	mg/L	1	08/05/17	LK	SW6010C
Silver (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum (Dissolved)	0.029	0.011	mg/L	1	08/04/17	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium (Dissolved)	0.031	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	08/04/17	LK	E200.7-4.4
Zinc (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Hardness (CaCO3)	29.9	0.1	mg/L	1	08/06/17		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Lead	< 0.002	0.002	mg/L	1	08/05/17	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	08/05/17	LK	SW6010C
Zinc	0.003	0.002	mg/L	1	08/05/17	LK	SW6010C
Alkalinity-CaCO3	< 20.0	20.0	mg/L	1	08/03/17	RR/EG	SM2320B-97,-11
Conductivity	197	5.00	umhos/cm	1	08/03/17	RR/EG	SM2510B-97,-11
pH	7.12	1.00	pH Units	1	08/03/17 21:15	RR/EG	SM4500-H B-00

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-02

SW-01

Phoenix I.D.: BY77752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Organic Carbon	4.9	1.0	mg/L	1	08/04/17	RR/EG	SM5310C-00,-11
Extraction of CT ETPH	Completed				08/07/17	P/UU	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				08/04/17	W/W	SW7470A
Mercury Digestion	Completed				08/04/17	W/W	SW7470A
Semi-Volatile Extraction	Completed				08/03/17	P/D/UU	SW3520C
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Total Metals Digestion	Completed				08/03/17	AG	
Total Metals Digestion MS	Completed				08/04/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	08/08/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/08/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	68		%	1	08/08/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Acetone	ND	25	ug/L	1	08/05/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/05/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/05/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-02 SW-01

Phoenix I.D.: BY77752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/05/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	98		%	1	08/05/17	MH	70 - 130 %
% Bromofluorobenzene	98		%	1	08/05/17	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	08/05/17	MH	70 - 130 %
% Toluene-d8	98		%	1	08/05/17	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D
1,4-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-02

SW-01

Phoenix I.D.: BY77752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Aniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Phenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	50		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	47		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	87		%	1	08/07/17	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-02

SW-01

Phoenix I.D.: BY77752

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	0.94	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.04	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	08/07/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyrene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	94		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	58		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	57		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	53		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	81		%	1	08/07/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/03/17	9:05
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77753

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-03 SW-01 Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum	0.228	0.010	mg/L	1	08/05/17	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	08/05/17	LK	SW6010C
Barium	0.033	0.002	mg/L	1	08/05/17	LK	SW6010C
Cadmium	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Copper	< 0.005	0.005	mg/L	1	08/05/17	LK	SW6010C
Silver (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum (Dissolved)	0.084	0.011	mg/L	1	08/04/17	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium (Dissolved)	0.030	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	08/04/17	LK	E200.7-4.4
Zinc (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Hardness (CaCO3)	29.9	0.1	mg/L	1	08/06/17		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Lead	< 0.002	0.002	mg/L	1	08/05/17	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	08/05/17	LK	SW6010C
Zinc	0.003	0.002	mg/L	1	08/05/17	LK	SW6010C
Alkalinity-CaCO3	20	20.0	mg/L	1	08/03/17	RR/EG	SM2320B-97,-11
Conductivity	196	5.00	umhos/cm	1	08/03/17	RR/EG	SM2510B-97,-11
pH	7.08	1.00	pH Units	1	08/03/17 21:19	RR/EG	SM4500-H B-00

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-03

SW-01 Field Duplicate

Phoenix I.D.: BY77753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Organic Carbon	4.8	1.0	mg/L	1	08/04/17	RR/EG	SM5310C-00,-11
Extraction of CT ETPH	Completed				08/07/17	P/UU	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				08/04/17	W/W	SW7470A
Mercury Digestion	Completed				08/04/17	W/W	SW7470A
Semi-Volatile Extraction	Completed				08/03/17	P/D/UU	SW3520C
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Total Metals Digestion	Completed				08/03/17	AG	
Total Metals Digestion MS	Completed				08/04/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	08/08/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/08/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	08/08/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Acetone	ND	25	ug/L	1	08/05/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/05/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/05/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-03

SW-01 Field Duplicate

Phoenix I.D.: BY77753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/05/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	08/05/17	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	08/05/17	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	08/05/17	MH	70 - 130 %
% Toluene-d8	97		%	1	08/05/17	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	08/07/17	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	08/07/17	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.8	ug/L	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
Acetophenone	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Aniline	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Benzidine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Benzoic acid	ND	49	ug/L	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Carbazole	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Isophorone	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.9	ug/L	1	08/07/17	DD	SW8270D
Phenol	ND	0.98	ug/L	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	60		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	53		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	45		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	83		%	1	08/07/17	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-03

SW-01 Field Duplicate

Phoenix I.D.: BY77753

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	0.94	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.01	0.01	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.04	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	08/07/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyrene	0.02	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	96		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	59		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	40		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	61		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	51		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	83		%	1	08/07/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	9:10
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77754

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-04

SED-01 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.56	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Aluminum	6050	3.4	mg/Kg	10	08/04/17	LK	SW6010C
Arsenic	4.3	1.1	mg/Kg	1	08/04/17	LK	SW6010C
Barium	82.5	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Cadmium	1.79	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Chromium	18.8	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Copper	66.8	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Mercury	0.13	0.04	mg/kg	1	08/07/17	RS	SW7471B
Nickel	16.3	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Lead	128	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	08/04/17	LK	SW6010C
Zinc	146	0.56	mg/Kg	1	08/04/17	LK	SW6010C
Percent Solid	60		%		08/03/17	Q	SW846-%Solid
pH - Sludge	6.64	1.00	pH Units	1	08/03/17 20:07	O	SW9045
Tot.Org.Carbon	45000	100	mg/kg	1	08/07/17	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				08/03/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				08/04/17	Q/VCK	SW3545A
Mercury Digestion	Completed				08/07/17	Q/Q	SW7471B
Total Metals Digest	Completed				08/03/17	L/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				08/03/17	MA	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	83	mg/Kg	1	08/07/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/07/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	81		%	1	08/07/17	JRB	50 - 150 %

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-04

SED-01 (0-0.5')

Phoenix I.D.: BY77754

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.9	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	40	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	40	ug/Kg	1	08/04/17	JLI	SW8260
Acetone	ND	400	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	ND	0.81	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	4.9	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-04

SED-01 (0-0.5')

Phoenix I.D.: BY77754

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	49	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	16	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	16	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	16	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	16	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	8.1	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	106		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	83		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	112		%	1	08/04/17	JLI	70 - 130 %
% Toluene-d8	98		%	1	08/04/17	JLI	70 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthene	19	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthylene	57	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Anthracene	76	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	340	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	400	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	370	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	310	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	340	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	270	22	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Chrysene	470	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	120	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluoranthene	740	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluorene	29	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachloroethane	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	290	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Naphthalene	11	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachloronitrobenzene	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenanthrene	320	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenol	15	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyrene	660	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyridine	ND	11	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	89		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorobiphenyl	63		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorophenol	62		%	1	08/04/17	DD	30 - 130 %
% Nitrobenzene-d5	66		%	1	08/04/17	DD	30 - 130 %
% Phenol-d5	73		%	1	08/04/17	DD	30 - 130 %
% Terphenyl-d14	75		%	1	08/04/17	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Dichlorobenzene	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Diphenylhydrazine	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
1,3-Dichlorobenzene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
1,4-Dichlorobenzene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,5-Trichlorophenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,6-Trichlorophenol	ND	210	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dichlorophenol	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dimethylphenol	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrophenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrotoluene	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
2,6-Dinitrotoluene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chloronaphthalene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chlorophenol	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitroaniline	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitrophenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
3,3'-Dichlorobenzidine	ND	110	ug/Kg	1	08/07/17	D/P	SW8270D
3-Nitroaniline	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloro-3-methylphenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloroaniline	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitroaniline	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitrophenol	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Acetophenone	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Aniline	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
Benzidine	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Benzoic acid	ND	540	ug/Kg	1	08/07/17	D/P	SW8270D
Benzyl butyl phthalate	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-04

SED-01 (0-0.5')

Phoenix I.D.: BY77754

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Dibenzofuran	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Diethyl phthalate	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Dimethylphthalate	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-butylphthalate	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-octylphthalate	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Hexachlorocyclopentadiene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Isophorone	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
Nitrobenzene	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodimethylamine	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodiphenylamine	ND	380	ug/Kg	1	08/07/17	D/P	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	80		%	1	08/07/17	D/P	SW8270D
% 2-Fluorobiphenyl	66		%	1	08/07/17	D/P	SW8270D
% 2-Fluorophenol	58		%	1	08/07/17	D/P	SW8270D
% Nitrobenzene-d5	56		%	1	08/07/17	D/P	SW8270D
% Phenol-d5	66		%	1	08/07/17	D/P	SW8270D
% Terphenyl-d14	75		%	1	08/07/17	D/P	SW8270D
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

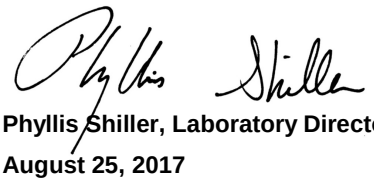
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	9:15
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77755

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-05

SED-01 (0-0.5') Field Duplicate

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.55	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Aluminum	9010	3.3	mg/Kg	10	08/04/17	LK	SW6010C
Arsenic	2.1	1.1	mg/Kg	1	08/04/17	LK	SW6010C
Barium	82.9	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Cadmium	0.92	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Chromium	19.6	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Copper	55.2	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Mercury	0.16	0.05	mg/kg	1	08/07/17	RS	SW7471B
Nickel	15.6	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Lead	125	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	08/04/17	LK	SW6010C
Zinc	117	0.55	mg/Kg	1	08/04/17	LK	SW6010C
Percent Solid	55		%		08/03/17	Q	SW846-%Solid
pH - Sludge	6.56	1.00	pH Units	1	08/03/17 20:07	O	SW9045
Tot.Org.Carbon	42000	100	mg/kg	1	08/07/17	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				08/03/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				08/04/17	Q/VCK	SW3545A
Mercury Digestion	Completed				08/07/17	Q/Q	SW7471B
Total Metals Digest	Completed				08/03/17	L/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				08/03/17	MA	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	91	mg/Kg	1	08/07/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/07/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	79		%	1	08/07/17	JRB	50 - 150 %

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-05

SED-01 (0-0.5') Field Duplicate

Phoenix I.D.: BY77755

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	5.9	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	49	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	49	ug/Kg	1	08/04/17	JLI	SW8260
Acetone	ND	490	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	ND	0.79	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	8.4	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	5.9	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	59	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	20	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	20	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	20	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	20	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	9.8	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	105		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	81		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	117		%	1	08/04/17	JLI	70 - 130 %
% Toluene-d8	98		%	1	08/04/17	JLI	70 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthene	28	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthylene	59	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Anthracene	94	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	380	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	430	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	400	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	320	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	370	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	330	24	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Chrysene	500	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	130	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluoranthene	840	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluorene	38	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachloroethane	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	310	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Naphthalene	16	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachloronitrobenzene	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	20	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenanthrene	380	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenol	20	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyrene	730	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyridine	ND	12	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorobiphenyl	60		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorophenol	64		%	1	08/04/17	DD	30 - 130 %
% Nitrobenzene-d5	63		%	1	08/04/17	DD	30 - 130 %
% Phenol-d5	76		%	1	08/04/17	DD	30 - 130 %
% Terphenyl-d14	79		%	1	08/04/17	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Dichlorobenzene	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Diphenylhydrazine	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
1,3-Dichlorobenzene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
1,4-Dichlorobenzene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,5-Trichlorophenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,6-Trichlorophenol	ND	210	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dichlorophenol	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dimethylphenol	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrophenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrotoluene	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
2,6-Dinitrotoluene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chloronaphthalene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chlorophenol	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitroaniline	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitrophenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
3,3'-Dichlorobenzidine	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
3-Nitroaniline	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloro-3-methylphenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloroaniline	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitroaniline	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitrophenol	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Acetophenone	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Aniline	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
Benzidine	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Benzoic acid	ND	600	ug/Kg	1	08/07/17	D/P	SW8270D
Benzyl butyl phthalate	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Dibenzofuran	ND	120	ug/Kg	1	08/07/17	D/P	SW8270D
Diethyl phthalate	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Dimethylphthalate	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-butylphthalate	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-octylphthalate	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Hexachlorocyclopentadiene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Isophorone	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
Nitrobenzene	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodimethylamine	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodiphenylamine	ND	420	ug/Kg	1	08/07/17	D/P	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	08/07/17	D/P	SW8270D
% 2-Fluorobiphenyl	63		%	1	08/07/17	D/P	SW8270D
% 2-Fluorophenol	62		%	1	08/07/17	D/P	SW8270D
% Nitrobenzene-d5	54		%	1	08/07/17	D/P	SW8270D
% Phenol-d5	75		%	1	08/07/17	D/P	SW8270D
% Terphenyl-d14	79		%	1	08/07/17	D/P	SW8270D
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/03/17	9:45
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77756

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-06

SW-02

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum	0.136	0.010	mg/L	1	08/04/17	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium	0.031	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Silver (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum (Dissolved)	0.128	0.011	mg/L	1	08/04/17	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium (Dissolved)	0.029	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	08/04/17	LK	E200.7-4.4
Zinc (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Hardness (CaCO3)	30.0	0.1	mg/L	1	08/08/17		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	08/04/17	LK	SW6010C
Zinc	0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Alkalinity-CaCO3	20	20.0	mg/L	1	08/03/17	RR/EG	SM2320B-97,-11
Conductivity	195	5.00	umhos/cm	1	08/03/17	RR/EG	SM2510B-97,-11
pH	7.08	1.00	pH Units	1	08/03/17 21:24	RR/EG	SM4500-H B-00

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-06

SW-02

Phoenix I.D.: BY77756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Organic Carbon	4.9	1.0	mg/L	1	08/04/17	RR/EG	SM5310C-00,-11
Extraction of CT ETPH	Completed				08/07/17	P/UU	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				08/04/17	W/W	SW7470A
Mercury Digestion	Completed				08/04/17	W/W	SW7470A
Semi-Volatile Extraction	Completed				08/03/17	P/D/UU	SW3520C
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Total Metals Digestion	Completed				08/03/17	AG	
Total Metals Digestion MS	Completed				08/04/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	08/08/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/08/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	70		%	1	08/08/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Acetone	ND	25	ug/L	1	08/05/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/05/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/05/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-06

SW-02

Phoenix I.D.: BY77756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/05/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	08/05/17	MH	70 - 130 %
% Bromofluorobenzene	96		%	1	08/05/17	MH	70 - 130 %
% Dibromofluoromethane	94		%	1	08/05/17	MH	70 - 130 %
% Toluene-d8	97		%	1	08/05/17	MH	70 - 130 %
Client MS/MSD	Completed				08/08/17		
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-06

SW-02

Phoenix I.D.: BY77756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
1,4-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
Acetophenone	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Aniline	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Benzidine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Benzoic acid	ND	48	ug/L	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Carbazole	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Isophorone	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.8	ug/L	1	08/07/17	DD	SW8270D
Phenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	84		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	54		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	30		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	41		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	40		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	80		%	1	08/07/17	DD	30 - 130 %

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-06

SW-02

Phoenix I.D.: BY77756

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	0.94	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.01	0.01	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.04	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	08/07/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyrene	0.03	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	54		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	33		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	49		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	47		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	81		%	1	08/07/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
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Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	9:50
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77757

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-07 SED-02 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.36	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Aluminum	3640	2.2	mg/Kg	10	08/04/17	LK	SW6010C
Arsenic	3.71	0.72	mg/Kg	1	08/04/17	LK	SW6010C
Barium	31.5	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Cadmium	1.46	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Chromium	13.7	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Copper	20.9	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Mercury	< 0.03	0.03	mg/kg	1	08/07/17	RS	SW7471B
Nickel	10.3	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Lead	57.3	0.36	mg/Kg	1	08/04/17	LK	SW6010C
Selenium	< 1.8	1.8	mg/Kg	1	08/04/17	LK	SW6010C
Zinc	181	3.6	mg/Kg	10	08/04/17	LK	SW6010C
Percent Solid	84		%		08/03/17	Q	SW846-%Solid
pH - Sludge	6.49	1.00	pH Units	1	08/03/17 20:07	O	SW9045
Tot.Org.Carbon	16000	100	mg/kg	1	08/07/17	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				08/03/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				08/04/17	Q/VCK	SW3545A
Mercury Digestion	Completed				08/07/17	Q/Q	SW7471B
Total Metals Digest	Completed				08/03/17	L/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				08/03/17	MA	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	59	mg/Kg	1	08/07/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/07/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	87		%	1	08/07/17	JRB	50 - 150 %

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-07

SED-02 (0-0.5')

Phoenix I.D.: BY77757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.9	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	32	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	32	ug/Kg	1	08/04/17	JLI	SW8260
Acetone	ND	320	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	1.4	1.3	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	3.9	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	39	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	13	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	13	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	18	6.5	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	13	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	13	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	6.5	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	96		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	99		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	115		%	1	08/04/17	JLI	70 - 130 %
% Toluene-d8	99		%	1	08/04/17	JLI	70 - 130 %
Client MS/MSD	Completed				08/07/17		

Semivolatiles (SIM)

1,2,4,5-Tetrachlorobenzene	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthene	9.1	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthylene	53	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Anthracene	69	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	320	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	400	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	370	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	320	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	340	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	230	16	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Chrysene	450	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	120	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluorene	23	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachloroethane	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	300	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Naphthalene	8.5	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachloronitrobenzene	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenanthrene	320	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenol	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyrene	700	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyridine	ND	7.9	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	86		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorobiphenyl	66		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorophenol	63		%	1	08/04/17	DD	30 - 130 %
% Nitrobenzene-d5	75		%	1	08/04/17	DD	30 - 130 %
% Phenol-d5	72		%	1	08/04/17	DD	30 - 130 %
% Terphenyl-d14	76		%	1	08/04/17	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
1,4-Dichlorobenzene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4,5-Trichlorophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	390	ug/Kg	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	390	ug/Kg	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	390	ug/Kg	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	390	ug/Kg	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Acetophenone	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Aniline	ND	390	ug/Kg	1	08/07/17	DD	SW8270D
Benzidine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Benzoic acid	ND	790	ug/Kg	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	280	ug/Kg	1	08/07/17	DD	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-07

SED-02 (0-0.5')

Phoenix I.D.: BY77757

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Carbazole	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Dibenzofuran	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Fluoranthene	820	280	ug/Kg	1	08/07/17	DD	SW8270D
Hexachlorocyclopentadiene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Isophorone	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
Nitrobenzene	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	280	ug/Kg	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	79		%	1	08/07/17	DD	SW8270D
% 2-Fluorobiphenyl	70		%	1	08/07/17	DD	SW8270D
% 2-Fluorophenol	57		%	1	08/07/17	DD	SW8270D
% Nitrobenzene-d5	65		%	1	08/07/17	DD	SW8270D
% Phenol-d5	68		%	1	08/07/17	DD	SW8270D
% Terphenyl-d14	73		%	1	08/07/17	DD	SW8270D
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

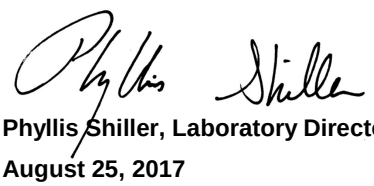
Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/03/17	10:10
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77758

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-08 SW-03

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum	0.278	0.010	mg/L	1	08/05/17	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	08/05/17	LK	SW6010C
Barium	0.035	0.002	mg/L	1	08/05/17	LK	SW6010C
Cadmium	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Copper	< 0.005	0.005	mg/L	1	08/05/17	LK	SW6010C
Silver (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum (Dissolved)	0.097	0.011	mg/L	1	08/04/17	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium (Dissolved)	0.029	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	08/04/17	LK	E200.7-4.4
Zinc (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Hardness (CaCO3)	30.0	0.1	mg/L	1	08/06/17		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel	< 0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Lead	0.005	0.002	mg/L	1	08/05/17	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	08/05/17	LK	SW6010C
Zinc	0.016	0.002	mg/L	1	08/05/17	LK	SW6010C
Alkalinity-CaCO3	< 20.0	20.0	mg/L	1	08/03/17	RR/EG	SM2320B-97,-11
Conductivity	193	5.00	umhos/cm	1	08/03/17	RR/EG	SM2510B-97,-11
pH	7.13	1.00	pH Units	1	08/03/17 21:46	RR/EG	SM4500-H B-00

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-08

SW-03

Phoenix I.D.: BY77758

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Organic Carbon	5.1	1.0	mg/L	1	08/04/17	RR/EG	SM5310C-00,-11
Extraction of CT ETPH	Completed				08/07/17	P/UU	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				08/04/17	W/W	SW7470A
Mercury Digestion	Completed				08/04/17	W/W	SW7470A
Semi-Volatile Extraction	Completed				08/03/17	P/D/UU	SW3520C
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Total Metals Digestion	Completed				08/03/17	AG	
Total Metals Digestion MS	Completed				08/04/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.066	mg/L	1	08/08/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/08/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	63		%	1	08/08/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Acetone	ND	25	ug/L	1	08/05/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/05/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/05/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-08

SW-03

Phoenix I.D.: BY77758

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/05/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	08/05/17	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	08/05/17	MH	70 - 130 %
% Dibromofluoromethane	93		%	1	08/05/17	MH	70 - 130 %
% Toluene-d8	98		%	1	08/05/17	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D
1,4-Dichlorobenzene	ND	2.3	ug/L	1	08/07/17	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.4	ug/L	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Aniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Phenol	ND	0.94	ug/L	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	50		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	38		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	43		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	42		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	80		%	1	08/07/17	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-08

SW-03

Phoenix I.D.: BY77758

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	0.94	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benz(a)anthracene	0.08	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(a)pyrene	0.09	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	0.10	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	0.09	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Chrysene	0.10	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.03	0.01	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluoranthene	0.19	0.04	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	0.06	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	08/07/17	DD	SW8270D (SIM)
Phenanthrene	0.08	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyrene	0.16	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	95		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	49		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	39		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	49		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	49		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	84		%	1	08/07/17	DD	30 - 130 %

Project ID: ANOCOIL ECO RISK SW-03 Phoenix I.D.: BY77758
Client ID: 790170803-08

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	10:15
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77759

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-09 SED-03 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.44	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Aluminum	3090	2.6	mg/Kg	10	08/04/17	LK	SW6010C
Arsenic	< 0.88	0.88	mg/Kg	1	08/04/17	LK	SW6010C
Barium	25.6	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Cadmium	0.50	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Chromium	8.52	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Copper	14.2	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Mercury	< 0.03	0.03	mg/kg	1	08/07/17	RS	SW7471B
Nickel	6.60	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Lead	26.4	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	08/04/17	LK	SW6010C
Zinc	46.2	0.44	mg/Kg	1	08/04/17	LK	SW6010C
Percent Solid	77		%		08/03/17	Q	SW846-%Solid
pH - Sludge	6.57	1.00	pH Units	1	08/03/17 20:07	O	SW9045
Tot.Org.Carbon	8200	100	mg/kg	1	08/07/17	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				08/03/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				08/04/17	Q/VCK	SW3545A
Mercury Digestion	Completed				08/07/17	Q/Q	SW7471B
Total Metals Digest	Completed				08/03/17	L/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				08/03/17	MA	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	64	mg/Kg	1	08/07/17	JRB	CTETPH 8015D
Identification	ND		mg/Kg	1	08/07/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	82		%	1	08/07/17	JRB	50 - 150 %

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-09

SED-03 (0-0.5')

Phoenix I.D.: BY77759

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.7	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	31	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	31	ug/Kg	1	08/04/17	JLI	SW8260
Acetone	ND	310	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	ND	0.80	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	3.7	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	37	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	12	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	12	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	12	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	12	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	6.2	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	116		%	1	08/04/17	JLI	70 - 130 %
% Toluene-d8	102		%	1	08/04/17	JLI	70 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
2-Methylnaphthalene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthene	18	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Acenaphthylene	61	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Anthracene	120	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benz(a)anthracene	510	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(a)pyrene	560	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	500	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	390	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	480	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	94	17	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Chrysene	660	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	150	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Fluorene	47	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Hexachloroethane	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	380	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Naphthalene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Pentachlorophenol	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenanthrene	600	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Phenol	8.8	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
Pyridine	ND	8.6	ug/Kg	1	08/04/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	08/04/17	DD	30 - 130 %
% 2-Fluorophenol	60		%	1	08/04/17	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	08/04/17	DD	30 - 130 %
% Phenol-d5	75		%	1	08/04/17	DD	30 - 130 %
% Terphenyl-d14	72		%	1	08/04/17	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Dichlorobenzene	ND	86	ug/Kg	1	08/07/17	D/P	SW8270D
1,2-Diphenylhydrazine	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
1,3-Dichlorobenzene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
1,4-Dichlorobenzene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,5-Trichlorophenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2,4,6-Trichlorophenol	ND	210	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dichlorophenol	ND	86	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dimethylphenol	ND	86	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrophenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2,4-Dinitrotoluene	ND	86	ug/Kg	1	08/07/17	D/P	SW8270D
2,6-Dinitrotoluene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chloronaphthalene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2-Chlorophenol	ND	86	ug/Kg	1	08/07/17	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitroaniline	ND	430	ug/Kg	1	08/07/17	D/P	SW8270D
2-Nitrophenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
3,3'-Dichlorobenzidine	ND	200	ug/Kg	1	08/07/17	D/P	SW8270D
3-Nitroaniline	ND	430	ug/Kg	1	08/07/17	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloro-3-methylphenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chloroaniline	ND	430	ug/Kg	1	08/07/17	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitroaniline	ND	430	ug/Kg	1	08/07/17	D/P	SW8270D
4-Nitrophenol	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Acetophenone	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Aniline	ND	430	ug/Kg	1	08/07/17	D/P	SW8270D
Benzidine	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Benzoic acid	ND	650	ug/Kg	1	08/07/17	D/P	SW8270D
Benzyl butyl phthalate	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Carbazole	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Dibenzofuran	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-09

SED-03 (0-0.5')

Phoenix I.D.: BY77759

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Diethyl phthalate	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Dimethylphthalate	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-butylphthalate	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Di-n-octylphthalate	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Fluoranthene	1500	300	ug/Kg	1	08/07/17	D/P	SW8270D
Hexachlorocyclopentadiene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Isophorone	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Nitrobenzene	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodimethylamine	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
N-Nitrosodiphenylamine	ND	300	ug/Kg	1	08/07/17	D/P	SW8270D
Pyrene	1400	300	ug/Kg	1	08/07/17	D/P	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	1	08/07/17	D/P	SW8270D
% 2-Fluorobiphenyl	67		%	1	08/07/17	D/P	SW8270D
% 2-Fluorophenol	58		%	1	08/07/17	D/P	SW8270D
% Nitrobenzene-d5	57		%	1	08/07/17	D/P	SW8270D
% Phenol-d5	70		%	1	08/07/17	D/P	SW8270D
% Terphenyl-d14	75		%	1	08/07/17	D/P	SW8270D
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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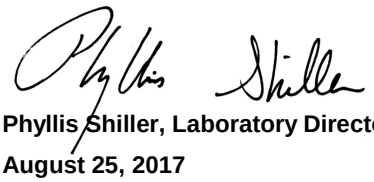


Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		08/03/17	11:20
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77760

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-10 SW-04

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum	0.108	0.010	mg/L	1	08/05/17	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	08/05/17	LK	SW6010C
Barium	0.029	0.002	mg/L	1	08/05/17	LK	SW6010C
Cadmium	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium	0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Copper	< 0.005	0.005	mg/L	1	08/05/17	LK	SW6010C
Silver (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Aluminum (Dissolved)	0.071	0.011	mg/L	1	08/04/17	LK	SW6010C
Arsenic (Dissolved)	< 0.004	0.004	mg/L	1	08/04/17	LK	SW6010C
Barium (Dissolved)	0.028	0.002	mg/L	1	08/04/17	LK	SW6010C
Cadmium (Dissolved)	< 0.0002	0.0002	mg/L	1	08/05/17	LK	SW6020B
Chromium (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Copper (Dissolved)	< 0.005	0.005	mg/L	1	08/04/17	LK	SW6010C
Mercury (Dissolved)	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel (Dissolved)	< 0.001	0.001	mg/L	1	08/04/17	LK	SW6010C
Lead (Dissolved)	< 0.002	0.002	mg/L	1	08/04/17	LK	SW6010C
Selenium (Dissolved)	< 0.011	0.011	mg/L	1	08/04/17	LK	E200.7-4.4
Zinc (Dissolved)	0.004	0.002	mg/L	1	08/04/17	LK	SW6010C
Hardness (CaCO3)	30.1	0.1	mg/L	1	08/06/17		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	08/04/17	RS	SW7470A
Nickel	0.001	0.001	mg/L	1	08/05/17	LK	SW6010C
Lead	< 0.002	0.002	mg/L	1	08/05/17	LK	SW6010C
Selenium	< 0.010	0.010	mg/L	1	08/05/17	LK	SW6010C
Zinc	0.003	0.002	mg/L	1	08/05/17	LK	SW6010C
Alkalinity-CaCO3	< 20.0	20.0	mg/L	1	08/03/17	RR/EG	SM2320B-97,-11
Conductivity	197	5.00	umhos/cm	1	08/03/17	RR/EG	SM2510B-97,-11
pH	6.95	1.00	pH Units	1	08/03/17 21:56	RR/EG	SM4500-H B-00

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-10 SW-04

Phoenix I.D.: BY77760

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Total Organic Carbon	5.2	1.0	mg/L	1	08/04/17	RR/EG	SM5310C-00,-11
Extraction of CT ETPH	Completed				08/07/17	P/UU	SW3510C/SW3520C
Mercury Dissolved Digestion	Completed				08/04/17	W/W	SW7470A
Mercury Digestion	Completed				08/04/17	W/W	SW7470A
Semi-Volatile Extraction	Completed				08/03/17	P/D/UU	SW3520C
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Dissolved Metals Preparation	Completed				08/03/17	AG	SW3005A
Total Metals Digestion	Completed				08/03/17	AG	
Total Metals Digestion MS	Completed				08/04/17	AG	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	ND	0.067	mg/L	1	08/08/17	JRB	CTETPH 8015D
Identification	ND		mg/L	1	08/08/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	69		%	1	08/08/17	JRB	50 - 150 %
Volatiles							
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,1-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
1,1,2-Trichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,1-Dichloropropene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,3-Trichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dibromoethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloroethane	ND	0.60	ug/L	1	08/05/17	MH	SW8260
1,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,3-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
1,4-Dichlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2,2-Dichloropropane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
2-Hexanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
2-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Chlorotoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
4-Methyl-2-pentanone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Acetone	ND	25	ug/L	1	08/05/17	MH	SW8260
Acrylonitrile	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Benzene	ND	0.70	ug/L	1	08/05/17	MH	SW8260
Bromobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromochloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Bromodichloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Bromoform	ND	1.0	ug/L	1	08/05/17	MH	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-10

SW-04

Phoenix I.D.: BY77760

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Carbon Disulfide	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Carbon tetrachloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chlorobenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloroform	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Chloromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
cis-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Dibromochloromethane	ND	0.50	ug/L	1	08/05/17	MH	SW8260
Dibromomethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Dichlorodifluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Ethylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Hexachlorobutadiene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
Isopropylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
m&p-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methyl ethyl ketone	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Methyl t-butyl ether (MTBE)	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Methylene chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Naphthalene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
n-Propylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
o-Xylene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
p-Isopropyltoluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
sec-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Styrene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
tert-Butylbenzene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrachloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Tetrahydrofuran (THF)	ND	2.5	ug/L	1	08/05/17	MH	SW8260
Toluene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Total Xylenes	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,2-Dichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
trans-1,3-Dichloropropene	ND	0.40	ug/L	1	08/05/17	MH	SW8260
trans-1,4-dichloro-2-butene	ND	5.0	ug/L	1	08/05/17	MH	SW8260
Trichloroethene	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorofluoromethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Trichlorotrifluoroethane	ND	1.0	ug/L	1	08/05/17	MH	SW8260
Vinyl chloride	ND	1.0	ug/L	1	08/05/17	MH	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	97		%	1	08/05/17	MH	70 - 130 %
% Bromofluorobenzene	97		%	1	08/05/17	MH	70 - 130 %
% Dibromofluoromethane	95		%	1	08/05/17	MH	70 - 130 %
% Toluene-d8	95		%	1	08/05/17	MH	70 - 130 %
Semivolatiles							
1,2,4-Trichlorobenzene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,2-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D
1,2-Diphenylhydrazine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
1,3-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D
1,4-Dichlorobenzene	ND	2.4	ug/L	1	08/07/17	DD	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-10

SW-04

Phoenix I.D.: BY77760

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4,5-Trichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4,6-Trichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dichlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dimethylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2,4-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2,6-Dinitrotoluene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chloronaphthalene	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Chlorophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2-Methylphenol (o-cresol)	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
2-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
2-Nitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	9.5	ug/L	1	08/07/17	DD	SW8270D
3,3'-Dichlorobenzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
3-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chloro-3-methylphenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Chloroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
4-Nitroaniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
4-Nitrophenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
Acetophenone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Aniline	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzidine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Benzoic acid	ND	47	ug/L	1	08/07/17	DD	SW8270D
Benzyl butyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroethyl)ether	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Carbazole	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Diethyl phthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Dimethylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-butylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Di-n-octylphthalate	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Isophorone	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodimethylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
N-Nitrosodiphenylamine	ND	4.7	ug/L	1	08/07/17	DD	SW8270D
Phenol	ND	0.95	ug/L	1	08/07/17	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	51		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	25		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	30		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	39		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	79		%	1	08/07/17	DD	30 - 130 %
Semivolatiles (SIM)							
1,2,4,5-Tetrachlorobenzene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-10

SW-04

Phoenix I.D.: BY77760

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2-Methylnaphthalene	ND	0.94	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Acenaphthylene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benz(a)anthracene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(a)pyrene	ND	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(b)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(ghi)perylene	ND	0.19	ug/L	1	08/07/17	DD	SW8270D (SIM)
Benzo(k)fluoranthene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Bis(2-ethylhexyl)phthalate	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Chrysene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenz(a,h)anthracene	0.01	0.01	ug/L	1	08/07/17	DD	SW8270D (SIM)
Dibenzofuran	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluoranthene	ND	0.04	ug/L	1	08/07/17	DD	SW8270D (SIM)
Fluorene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobenzene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorobutadiene	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachlorocyclopentadiene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Hexachloroethane	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
Indeno(1,2,3-cd)pyrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Naphthalene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Nitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachloronitrobenzene	ND	0.09	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pentachlorophenol	ND	0.75	ug/L	1	08/07/17	DD	SW8270D (SIM)
Phenanthrene	ND	0.05	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyrene	0.02	0.02	ug/L	1	08/07/17	DD	SW8270D (SIM)
Pyridine	ND	0.47	ug/L	1	08/07/17	DD	SW8270D (SIM)
QA/QC Surrogates							
% 2,4,6-Tribromophenol	99		%	1	08/07/17	DD	15 - 110 %
% 2-Fluorobiphenyl	51		%	1	08/07/17	DD	30 - 130 %
% 2-Fluorophenol	27		%	1	08/07/17	DD	15 - 110 %
% Nitrobenzene-d5	35		%	1	08/07/17	DD	30 - 130 %
% Phenol-d5	46		%	1	08/07/17	DD	15 - 110 %
% Terphenyl-d14	82		%	1	08/07/17	DD	30 - 130 %

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.

Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	11:25
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77761

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-11 SED-04 (0-0.5')

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Aluminum	5450	2.5	mg/Kg	10	08/04/17	LK	SW6010C
Arsenic	1.15	0.83	mg/Kg	1	08/04/17	LK	SW6010C
Barium	69.3	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Cadmium	0.48	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Chromium	13.1	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Copper	32.5	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Mercury	0.05	0.03	mg/kg	1	08/07/17	RS	SW7471B
Nickel	9.03	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Lead	240	4.2	mg/Kg	10	08/04/17	LK	SW6010C
Selenium	< 2.0	2.0	mg/Kg	1	08/04/17	LK	SW6010C
Zinc	69.1	0.42	mg/Kg	1	08/04/17	LK	SW6010C
Percent Solid	77		%		08/03/17	Q	SW846-%Solid
pH - Sludge	5.95	1.00	pH Units	1	08/03/17 20:07	O	SW9045
Tot.Org.Carbon	27000	100	mg/kg	1	08/07/17	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				08/03/17	JJ/CKV	SW3545A
Extraction of CT ETPH	Completed				08/04/17	Q/VCK	SW3545A
Mercury Digestion	Completed				08/07/17	Q/Q	SW7471B
Total Metals Digest	Completed				08/03/17	L/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				08/03/17	MA	
TPH by GC (Extractable Products)							
Ext. Petroleum H.C. (C9-C36)	520	320	mg/Kg	5	08/07/17	JRB	CTETPH 8015D
Identification	**		mg/Kg	5	08/07/17	JRB	CTETPH 8015D
QA/QC Surrogates							
% n-Pentacosane	128		%	5	08/07/17	JRB	50 - 150 %

Ver 4

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-11

SED-04 (0-0.5')

Phoenix I.D.: BY77761

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	4.4	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	36	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	36	ug/Kg	1	08/04/17	JLI	SW8260
Acetone	ND	360	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	1.1	0.80	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	4.4	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-11

SED-04 (0-0.5')

Phoenix I.D.: BY77761

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
m&p-Xylene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	44	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	15	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	15	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	15	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	15	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	7.3	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	78		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	114		%	1	08/04/17	JLI	70 - 130 %
% Toluene-d8	96		%	1	08/04/17	JLI	70 - 130 %
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
1,2,4-Trichlorobenzene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
1,2-Dichlorobenzene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
1,2-Diphenylhydrazine	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
1,3-Dichlorobenzene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
1,4-Dichlorobenzene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2,4,5-Trichlorophenol	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
2,4,6-Trichlorophenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2,4-Dichlorophenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2,4-Dimethylphenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2,4-Dinitrophenol	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
2,4-Dinitrotoluene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2,6-Dinitrotoluene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
2-Chloronaphthalene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
2-Chlorophenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2-Methylnaphthalene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
2-Methylphenol (o-cresol)	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
2-Nitroaniline	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
2-Nitrophenol	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-11

SED-04 (0-0.5')

Phoenix I.D.: BY77761

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
3,3'-Dichlorobenzidine	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
3-Nitroaniline	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
4,6-Dinitro-2-methylphenol	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
4-Bromophenyl phenyl ether	ND	1200	ug/Kg	5	08/07/17	D/P	SW8270D
4-Chloro-3-methylphenol	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
4-Chloroaniline	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
4-Chlorophenyl phenyl ether	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
4-Nitroaniline	ND	3400	ug/Kg	5	08/07/17	D/P	SW8270D
4-Nitrophenol	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Acenaphthene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Acenaphthylene	1500	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Acetophenone	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Aniline	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
Anthracene	2000	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benz(a)anthracene	8600	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzidine	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzo(a)pyrene	8600	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzo(b)fluoranthene	7900	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzo(ghi)perylene	4600	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzo(k)fluoranthene	7700	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Benzoic acid	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Benzyl butyl phthalate	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Bis(2-chloroethoxy)methane	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Bis(2-chloroethyl)ether	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
Bis(2-chloroisopropyl)ether	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Bis(2-ethylhexyl)phthalate	420	390	ug/Kg	5	08/07/17	D/P	SW8270D
Carbazole	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
Chrysene	10000	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Dibenz(a,h)anthracene	960	860	ug/Kg	5	08/07/17	D/P	SW8270D
Dibenzofuran	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Diethyl phthalate	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Dimethylphthalate	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Di-n-butylphthalate	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Di-n-octylphthalate	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Fluoranthene	17000	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Fluorene	870	860	ug/Kg	5	08/07/17	D/P	SW8270D
Hexachlorobenzene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Hexachlorobutadiene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Hexachlorocyclopentadiene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Hexachloroethane	ND	1000	ug/Kg	5	08/07/17	D/P	SW8270D
Indeno(1,2,3-cd)pyrene	5000	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Isophorone	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Naphthalene	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Nitrobenzene	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
N-Nitrosodimethylamine	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
N-Nitrosodi-n-propylamine	ND	1500	ug/Kg	5	08/07/17	D/P	SW8270D
N-Nitrosodiphenylamine	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
Pentachloronitrobenzene	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
Pentachlorophenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-11

SED-04 (0-0.5')

Phoenix I.D.: BY77761

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Phenanthrene	7500	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Phenol	ND	390	ug/Kg	5	08/07/17	D/P	SW8270D
Pyrene	15000	1500	ug/Kg	5	08/07/17	D/P	SW8270D
Pyridine	ND	2100	ug/Kg	5	08/07/17	D/P	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	diluted out		%	5	08/07/17	D/P	30 - 130 %
% 2-Fluorobiphenyl	diluted out		%	5	08/07/17	D/P	30 - 130 %
% 2-Fluorophenol	diluted out		%	5	08/07/17	D/P	30 - 130 %
% Nitrobenzene-d5	diluted out		%	5	08/07/17	D/P	30 - 130 %
% Phenol-d5	diluted out		%	5	08/07/17	D/P	30 - 130 %
% Terphenyl-d14	diluted out		%	5	08/07/17	D/P	30 - 130 %
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

TPH Comment:
**Petroleum hydrocarbon chromatogram contains a multicomponent hydrocarbon distribution in the range of C14 to C36. The sample was quantitated against a C9-C36 alkane hydrocarbon standard.

Semi-Volatile Comment:
The client requested semivolatile SIM analysis for some compounds. Due to sample matrix, the sample had to be run full scan and could not be evaluated to the requested detection levels.

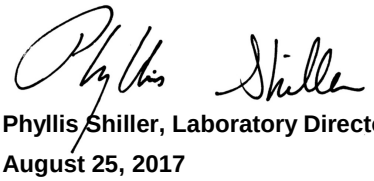
Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

Semi-Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
This report must not be reproduced except in full as defined by the attached chain of custody.



Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	12:30
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77762

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-12

Trip Blank - high

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
2-Hexanone	ND	1300	ug/Kg	50	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	1300	ug/Kg	50	08/04/17	JLI	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-12

Trip Blank - high

Phoenix I.D.: BY77762

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	5000	ug/Kg	50	08/04/17	JLI	SW8260
Acrylonitrile	ND	500	ug/Kg	50	08/04/17	JLI	SW8260
Benzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Bromobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Bromochloromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Bromodichloromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Bromoform	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Bromomethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Carbon Disulfide	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Chlorobenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Chloroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Chloroform	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Chloromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Dibromochloromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Dibromomethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Ethylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Isopropylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
m&p-Xylene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	3000	ug/Kg	50	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Methylene chloride	ND	500	ug/Kg	50	08/04/17	JLI	SW8260
Naphthalene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
n-Butylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
n-Propylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
o-Xylene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Styrene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Tetrachloroethene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	500	ug/Kg	50	08/04/17	JLI	SW8260
Toluene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Total Xylenes	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	500	ug/Kg	50	08/04/17	JLI	SW8260
Trichloroethene	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
Vinyl chloride	ND	250	ug/Kg	50	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	50	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	93		%	50	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	100		%	50	08/04/17	JLI	70 - 130 %

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-12

Trip Blank - high

Phoenix I.D.: BY77762

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	50	08/04/17	JLI	70 - 130 %
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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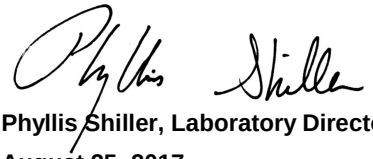

Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

August 25, 2017

FOR: Attn: Kevin Vanderveer
Fuss & O'Neill, Inc.
146 Hartford Road
Manchester, CT 06040

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		08/03/17	12:35
Location Code:	F&O	Received by:	SW	08/03/17	14:33
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	2001454P70				

Laboratory Data

SDG ID: GBY77751
Phoenix ID: BY77763

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-13

Trip Blank - low

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles							
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2,2-Tetrachloroethane	ND	3.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloroethene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,1-Dichloropropene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2,3-Trichloropropane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trichlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2,4-Trimethylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromo-3-chloropropane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dibromoethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,2-Dichloropropane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,3,5-Trimethylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,3-Dichloropropane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
2,2-Dichloropropane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
2-Chlorotoluene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
2-Hexanone	ND	25	ug/Kg	1	08/04/17	JLI	SW8260
2-Isopropyltoluene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
4-Chlorotoluene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
4-Methyl-2-pentanone	ND	25	ug/Kg	1	08/04/17	JLI	SW8260

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-13

Trip Blank - low

Phoenix I.D.: BY77763

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetone	ND	250	ug/Kg	1	08/04/17	JLI	SW8260
Acrylonitrile	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Benzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Bromobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Bromochloromethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Bromodichloromethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Bromoform	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Bromomethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Carbon Disulfide	ND	0.80	ug/Kg	1	08/04/17	JLI	SW8260
Carbon tetrachloride	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Chlorobenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Chloroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Chloroform	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Chloromethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Dibromochloromethane	ND	3.0	ug/Kg	1	08/04/17	JLI	SW8260
Dibromomethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Dichlorodifluoromethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Ethylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Hexachlorobutadiene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Isopropylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
m&p-Xylene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Methyl Ethyl Ketone	ND	30	ug/Kg	1	08/04/17	JLI	SW8260
Methyl t-butyl ether (MTBE)	ND	10	ug/Kg	1	08/04/17	JLI	SW8260
Methylene chloride	ND	10	ug/Kg	1	08/04/17	JLI	SW8260
Naphthalene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
n-Butylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
n-Propylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
o-Xylene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
p-Isopropyltoluene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
sec-Butylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Styrene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
tert-Butylbenzene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Tetrachloroethene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Tetrahydrofuran (THF)	ND	10	ug/Kg	1	08/04/17	JLI	SW8260
Toluene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Total Xylenes	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
trans-1,4-dichloro-2-butene	ND	10	ug/Kg	1	08/04/17	JLI	SW8260
Trichloroethene	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorofluoromethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
Vinyl chloride	ND	5.0	ug/Kg	1	08/04/17	JLI	SW8260
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	104		%	1	08/04/17	JLI	70 - 130 %
% Bromofluorobenzene	95		%	1	08/04/17	JLI	70 - 130 %
% Dibromofluoromethane	113		%	1	08/04/17	JLI	70 - 130 %

Project ID: ANOCOIL ECO RISK
Client ID: 790170803-13

Trip Blank - low

Phoenix I.D.: BY77763

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
% Toluene-d8	100		%	1	08/04/17	JLI	70 - 130 %
Field Extraction	Completed				08/03/17		SW5035A

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

TRIP BLANK INCLUDED.

Results are reported on an ``as received`` basis, and are not corrected for dry weight.

Volatile Comment:
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services.
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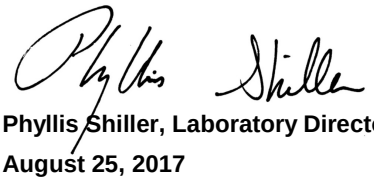

Phyllis Shiller, Laboratory Director
August 25, 2017
Reviewed and Released by: Phyllis Shiller, Laboratory Director

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

QA/QC Report

August 25, 2017

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 396383 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
ICP Metals - Aqueous														
Aluminum	BRL	0.010	0.136	0.088	42.9	100			106			75 - 125	20	r
Arsenic	BRL	0.004	<0.004	<0.004	NC	103			103			75 - 125	20	
Barium	BRL	0.002	0.031	0.031	0	107			105			75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	105			103			75 - 125	20	
Copper	BRL	0.005	<0.005	<0.005	NC	103			103			75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	105			103			75 - 125	20	
Nickel	BRL	0.001	<0.001	<0.001	NC	107			105			75 - 125	20	
Selenium	BRL	0.010	<0.010	<0.010	NC	104			100			75 - 125	20	
Zinc	BRL	0.002	0.002	0.002	NC	104			103			75 - 125	20	
QA/QC Batch 396402 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
ICP Metals - Dissolved														
Cadmium	BRL	0.0002	<0.0002	<0.0002	NC	108			100			75 - 125	20	
Silver	BRL	0.0002	<0.0002	<0.0002	NC	114			104			75 - 125	20	
QA/QC Batch 396401 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
ICP Metals - Dissolved														
Aluminum	BRL	0.011	0.128	0.106	18.8	99.0			95.0			75 - 125	20	
Arsenic	BRL	0.004	<0.004	<0.004	NC	101			98.0			75 - 125	20	
Barium	BRL	0.002	0.029	0.029	0	106			101			75 - 125	20	
Chromium	BRL	0.001	<0.001	<0.001	NC	103			99.2			75 - 125	20	
Copper	BRL	0.005	<0.005	<0.005	NC	102			97.6			75 - 125	20	
Lead	BRL	0.002	<0.002	<0.002	NC	103			98.9			75 - 125	20	
Nickel	BRL	0.001	<0.001	<0.001	NC	105			101			75 - 125	20	
Selenium	BRL	0.011	<0.011	<0.011	NC	99.4			96.6			75 - 125	20	
Zinc	BRL	0.002	<0.002	<0.002	NC	100			97.7			75 - 125	20	
QA/QC Batch 396553 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
ICP MS Metals - Aqueous														
Cadmium	BRL	0.0002	<0.0002	<0.0002	NC	105			106			75 - 125	20	
Silver	BRL	0.0010	<0.0002	<0.0010	NC	108			107			75 - 125	20	
QA/QC Batch 396443 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
Mercury (Dissolved)	BRL	0.0002	<0.0002	<0.0003	NC	93.9			97.7			80 - 120	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														
QA/QC Batch 396439 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)														
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	93.7			92.0			80 - 120	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 396360 (mg/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)														
ICP Metals - Soil														
Aluminum	BRL	5.2	3640	4200	14.3	93.6			NC			75 - 125	30	
Arsenic	BRL	0.69	3.71	2.89	NC	88.9			80.5			75 - 125	30	
Barium	BRL	0.35	31.5	34.6	9.40	104			109			75 - 125	30	
Cadmium	BRL	0.35	1.46	1.60	NC	110			91.2			75 - 125	30	
Chromium	BRL	0.35	13.7	15.3	11.0	114			104			75 - 125	30	
Copper	BRL	0.35	20.9	37.7	57.3	113			>130			75 - 125	30	m,r
Lead	BRL	0.35	57.3	52.4	8.90	104			93.8			75 - 125	30	
Nickel	BRL	0.35	10.3	18.2	55.4	111			101			75 - 125	30	r
Selenium	BRL	1.4	<1.8	<1.5	NC	106			84.8			75 - 125	30	
Silver	BRL	0.35	<0.36	<0.38	NC	99.9			93.5			75 - 125	30	
Zinc	BRL	0.35	181	271	39.8	97.5			>130			75 - 125	30	m,r
QA/QC Batch 396645 (mg/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)														
Mercury - Soil	BRL	0.03	<0.03	<0.03	NC	97.9	97.7	0.2	96.1			70 - 130	30	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.														

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

August 25, 2017

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 396395 (PH), QC Sample No: BY76625 (BY77754, BY77755, BY77757, BY77759, BY77761)													
pH at 25C - Soil			6.23	6.28	0.80	100						85 - 115	20
QA/QC Batch 396463 (mg/L), QC Sample No: BY76822 (BY77752, BY77753, BY77756)													
Alkalinity-CaCO3	BRL	5.00				101						85 - 115	20
QA/QC Batch 396473 (umhos/cm), QC Sample No: BY76822 (BY77752, BY77753, BY77756)													
Conductivity	BRL	5.00	32200	32100	0.30	102						85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 396458 (pH), QC Sample No: BY77756 (BY77752, BY77753, BY77756)													
pH			7.08	7.06	0.30	98.1						85 - 115	20
QA/QC Batch 396433 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)													
Total Organic Carbon	BRL	1.0	4.9	4.8	NC	106			99.0			85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 396749 (mg/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)													
Tot.Org.Carbon	BRL	100	16000	13000	NC	89.0						75 - 125	30
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 396464 (mg/L), QC Sample No: BY77758 (BY77758, BY77760)													
Alkalinity-CaCO3	BRL	5.00	<20.0	23	NC	105						85 - 115	20
QA/QC Batch 396474 (umhos/cm), QC Sample No: BY77758 (BY77758, BY77760)													
Conductivity	BRL	5.00	193	196	1.50	97.3						85 - 115	20
Comment:													
Additional criteria matrix spike acceptance range is 75-125%.													
QA/QC Batch 396459 (pH), QC Sample No: BY77831 (BY77758, BY77760)													
pH			6.29	6.54	3.90	98.3						85 - 115	20

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QA/QC Report

August 25, 2017

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 396727 (mg/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)											
TPH by GC (Extractable Products) - Surface Water											
Ext. Petroleum H.C. (C9-C36)	ND	0.094	87	79	9.6	82	74	10.3	60 - 120	30	
% n-Pentacosane	63	%	73	67	8.6	74	70	5.6	50 - 150	20	
Comment:											
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.											
QA/QC Batch 396725 (ug/L), QC Sample No: BY77756 (BY77751, BY77752, BY77753, BY77756, BY77758, BY77760)											
Volatiles - Water, Surface Water											
1,1,1,2-Tetrachloroethane	ND	1.0	88	104	16.7	93	98	5.2	70 - 130	30	
1,1,1-Trichloroethane	ND	1.0	92	103	11.3	101	108	6.7	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	0.50	87	104	17.8	92	95	3.2	70 - 130	30	
1,1,2-Trichloroethane	ND	1.0	78	96	20.7	91	92	1.1	70 - 130	30	
1,1-Dichloroethane	ND	1.0	89	103	14.6	97	102	5.0	70 - 130	30	
1,1-Dichloroethene	ND	1.0	93	104	11.2	103	109	5.7	70 - 130	30	
1,1-Dichloropropene	ND	1.0	91	103	12.4	102	109	6.6	70 - 130	30	
1,2,3-Trichlorobenzene	ND	1.0	89	100	11.6	77	90	15.6	70 - 130	30	
1,2,3-Trichloropropane	ND	1.0	70	82	15.8	73	94	25.1	70 - 130	30	
1,2,4-Trichlorobenzene	ND	1.0	90	104	14.4	83	96	14.5	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	92	98	6.3	90	97	7.5	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	1.0	80	95	17.1	76	87	13.5	70 - 130	30	
1,2-Dibromoethane	ND	1.0	84	102	19.4	93	97	4.2	70 - 130	30	
1,2-Dichlorobenzene	ND	1.0	90	101	11.5	89	97	8.6	70 - 130	30	
1,2-Dichloroethane	ND	1.0	79	97	20.5	90	93	3.3	70 - 130	30	
1,2-Dichloropropane	ND	1.0	86	101	16.0	95	98	3.1	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	91	99	8.4	90	99	9.5	70 - 130	30	
1,3-Dichlorobenzene	ND	1.0	93	103	10.2	93	99	6.3	70 - 130	30	
1,3-Dichloropropane	ND	1.0	82	98	17.8	90	91	1.1	70 - 130	30	
1,4-Dichlorobenzene	ND	1.0	93	102	9.2	91	98	7.4	70 - 130	30	
2,2-Dichloropropane	ND	1.0	95	106	10.9	92	96	4.3	70 - 130	30	
2-Chlorotoluene	ND	1.0	95	100	5.1	92	99	7.3	70 - 130	30	
2-Hexanone	ND	5.0	73	96	27.2	90	88	2.2	70 - 130	30	
2-Isopropyltoluene	ND	1.0	100	111	10.4	100	109	8.6	70 - 130	30	
4-Chlorotoluene	ND	1.0	94	99	5.2	90	98	8.5	70 - 130	30	
4-Methyl-2-pentanone	ND	5.0	79	107	30.1	96	99	3.1	70 - 130	30	
Acetone	ND	5.0	90	109	19.1	116	118	1.7	70 - 130	30	
Acrylonitrile	ND	5.0	83	104	22.5	92	93	1.1	70 - 130	30	
Benzene	ND	0.70	88	101	13.8	94	100	6.2	70 - 130	30	
Bromobenzene	ND	1.0	93	103	10.2	94	99	5.2	70 - 130	30	
Bromochloromethane	ND	1.0	85	101	17.2	91	97	6.4	70 - 130	30	
Bromodichloromethane	ND	0.50	83	100	18.6	92	96	4.3	70 - 130	30	
Bromoform	ND	1.0	77	100	26.0	83	88	5.8	70 - 130	30	
Bromomethane	ND	1.0	85	99	15.2	62	86	32.4	70 - 130	30	m,r

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Carbon Disulfide	ND	1.0	106	118	10.7	114	122	6.8	70 - 130	30
Carbon tetrachloride	ND	1.0	90	101	11.5	100	106	5.8	70 - 130	30
Chlorobenzene	ND	1.0	90	101	11.5	93	98	5.2	70 - 130	30
Chloroethane	ND	1.0	93	107	14.0	99	108	8.7	70 - 130	30
Chloroform	ND	1.0	87	101	14.9	95	99	4.1	70 - 130	30
Chloromethane	ND	1.0	90	102	12.5	96	100	4.1	70 - 130	30
cis-1,2-Dichloroethene	ND	1.0	87	102	15.9	93	99	6.3	70 - 130	30
cis-1,3-Dichloropropene	ND	0.40	82	100	19.8	89	94	5.5	70 - 130	30
Dibromochloromethane	ND	0.50	86	104	18.9	92	97	5.3	70 - 130	30
Dibromomethane	ND	1.0	79	95	18.4	91	91	0.0	70 - 130	30
Dichlorodifluoromethane	ND	1.0	106	114	7.3	108	117	8.0	70 - 130	30
Ethylbenzene	ND	1.0	90	102	12.5	96	100	4.1	70 - 130	30
Hexachlorobutadiene	ND	0.40	105	102	2.9	86	102	17.0	70 - 130	30
Isopropylbenzene	ND	1.0	91	100	9.4	93	103	10.2	70 - 130	30
m&p-Xylene	ND	1.0	90	101	11.5	93	99	6.3	70 - 130	30
Methyl ethyl ketone	ND	5.0	84	103	20.3	97	99	2.0	70 - 130	30
Methyl t-butyl ether (MTBE)	ND	1.0	87	112	25.1	105	106	0.9	70 - 130	30
Methylene chloride	ND	1.0	80	92	14.0	86	88	2.3	70 - 130	30
Naphthalene	ND	1.0	86	102	17.0	83	94	12.4	70 - 130	30
n-Butylbenzene	ND	1.0	86	95	9.9	88	97	9.7	70 - 130	30
n-Propylbenzene	ND	1.0	89	97	8.6	89	99	10.6	70 - 130	30
o-Xylene	ND	1.0	92	104	12.2	94	100	6.2	70 - 130	30
p-Isopropyltoluene	ND	1.0	87	96	9.8	89	99	10.6	70 - 130	30
sec-Butylbenzene	ND	1.0	87	98	11.9	93	103	10.2	70 - 130	30
Styrene	ND	1.0	88	102	14.7	91	96	5.3	70 - 130	30
tert-Butylbenzene	ND	1.0	86	96	11.0	90	100	10.5	70 - 130	30
Tetrachloroethene	ND	1.0	85	100	16.2	95	103	8.1	70 - 130	30
Tetrahydrofuran (THF)	ND	2.5	84	114	30.3	96	101	5.1	70 - 130	30
Toluene	ND	1.0	85	100	16.2	93	100	7.3	70 - 130	30
trans-1,2-Dichloroethene	ND	1.0	91	102	11.4	97	103	6.0	70 - 130	30
trans-1,3-Dichloropropene	ND	0.40	75	97	25.6	86	89	3.4	70 - 130	30
trans-1,4-dichloro-2-butene	ND	5.0	85	102	18.2	83	87	4.7	70 - 130	30
Trichloroethene	ND	1.0	88	103	15.7	96	104	8.0	70 - 130	30
Trichlorofluoromethane	ND	1.0	91	99	8.4	99	108	8.7	70 - 130	30
Trichlorotrifluoroethane	ND	1.0	97	106	8.9	103	111	7.5	70 - 130	30
Vinyl chloride	ND	1.0	98	108	9.7	106	115	8.1	70 - 130	30
% 1,2-dichlorobenzene-d4	97	%	97	99	2.0	98	100	2.0	70 - 130	30
% Bromofluorobenzene	95	%	96	99	3.1	99	98	1.0	70 - 130	30
% Dibromofluoromethane	98	%	89	98	9.6	97	97	0.0	70 - 130	30
% Toluene-d8	98	%	98	99	1.0	97	100	3.0	70 - 130	30

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 396373 (ug/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)

Semivolatiles (SIM) - Surface Water

1,2,4,5-Tetrachlorobenzene	ND	0.47	69	70	1.4	63	63	0.0	30 - 130	20
2-Methylnaphthalene	ND	0.02	64	65	1.6	58	57	1.7	30 - 130	20
Acenaphthene	ND	0.02	87	87	0.0	77	77	0.0	30 - 130	20
Acenaphthylene	ND	0.02	86	86	0.0	74	72	2.7	30 - 130	20
Anthracene	ND	0.02	94	92	2.2	80	79	1.3	30 - 130	20
Benz(a)anthracene	ND	0.02	89	86	3.4	83	81	2.4	30 - 130	20
Benzo(a)pyrene	ND	0.02	88	86	2.3	82	80	2.5	30 - 130	20
Benzo(b)fluoranthene	ND	0.02	99	101	2.0	91	89	2.2	30 - 130	20

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzo(ghi)perylene	ND	0.02	82	79	3.7	86	84	2.4	30 - 130	20	
Benzo(k)fluoranthene	ND	0.02	89	83	7.0	88	87	1.1	30 - 130	20	
Bis(2-ethylhexyl)phthalate	ND	0.1	89	86	3.4	107	104	2.8	30 - 130	20	
Chrysene	ND	0.02	91	89	2.2	91	90	1.1	30 - 130	20	
Dibenz(a,h)anthracene	ND	0.01	100	97	3.0	98	97	1.0	30 - 130	20	
Dibenzofuran	ND	0.05	83	83	0.0	71	69	2.9	30 - 130	20	
Fluoranthene	ND	0.02	93	91	2.2	97	93	4.2	30 - 130	20	
Fluorene	ND	0.02	90	90	0.0	79	78	1.3	30 - 130	20	
Hexachlorobenzene	ND	0.02	82	80	2.5	76	78	2.6	30 - 130	20	
Hexachlorobutadiene	ND	0.1	53	53	0.0	49	47	4.2	30 - 130	20	
Hexachlorocyclopentadiene	ND	0.05	51	49	4.0	29	26	10.9	30 - 130	20	m
Hexachloroethane	ND	0.1	47	49	4.2	45	42	6.9	30 - 130	20	
Indeno(1,2,3-cd)pyrene	ND	0.02	91	88	3.4	90	89	1.1	30 - 130	20	
Naphthalene	ND	0.05	60	61	1.7	51	49	4.0	30 - 130	20	
Nitrobenzene	ND	0.05	65	64	1.6	53	51	3.8	30 - 130	20	
Pentachloronitrobenzene	ND	0.09	95	93	2.1	92	95	3.2	30 - 130	20	
Pentachlorophenol	ND	0.19	113	106	6.4	81	80	1.2	30 - 130	20	
Phenanthrene	ND	0.02	86	84	2.4	77	76	1.3	30 - 130	20	
Pyrene	ND	0.02	96	94	2.1	98	93	5.2	30 - 130	20	
Pyridine	ND	0.47	44	47	6.6	37	36	2.7	30 - 130	20	
% 2,4,6-Tribromophenol	85	%	100	97	3.0	91	94	3.2	15 - 110	20	
% 2-Fluorobiphenyl	38	%	77	79	2.6	71	69	2.9	30 - 130	20	
% 2-Fluorophenol	25	%	42	44	4.7	25	37	38.7	15 - 110	20	r
% Nitrobenzene-d5	32	%	70	70	0.0	64	62	3.2	30 - 130	20	
% Phenol-d5	26	%	54	57	5.4	30	52	53.7	15 - 110	20	r
% Terphenyl-d14	91	%	103	99	4.0	100	95	5.1	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 396373 (ug/L), QC Sample No: BY77756 (BY77752, BY77753, BY77756, BY77758, BY77760)

Semivolatiles - Surface Water

1,2,4-Trichlorobenzene	ND	3.3	60	62	3.3	61	61	0.0	30 - 130	20	
1,2-Dichlorobenzene	ND	0.94	51	52	1.9	44	41	7.1	30 - 130	20	
1,2-Diphenylhydrazine	ND	1.5	86	83	3.6	91	84	8.0	30 - 130	20	
1,3-Dichlorobenzene	ND	0.94	47	50	6.2	41	38	7.6	30 - 130	20	
1,4-Dichlorobenzene	ND	0.94	50	51	2.0	43	39	9.8	30 - 130	20	
2,4,5-Trichlorophenol	ND	0.94	90	92	2.2	87	92	5.6	30 - 130	20	
2,4,6-Trichlorophenol	ND	0.94	84	86	2.4	78	82	5.0	30 - 130	20	
2,4-Dichlorophenol	ND	0.94	73	76	4.0	74	82	10.3	30 - 130	20	
2,4-Dimethylphenol	ND	0.94	78	79	1.3	85	87	2.3	30 - 130	20	
2,4-Dinitrophenol	ND	0.94	90	99	9.5	121	116	4.2	30 - 130	20	
2,4-Dinitrotoluene	ND	3.3	97	96	1.0	103	105	1.9	30 - 130	20	
2,6-Dinitrotoluene	ND	3.3	85	84	1.2	86	90	4.5	30 - 130	20	
2-Chloronaphthalene	ND	3.3	74	73	1.4	80	78	2.5	30 - 130	20	
2-Chlorophenol	ND	0.94	54	56	3.6	44	49	10.8	30 - 130	20	
2-Methylphenol (o-cresol)	ND	0.94	66	69	4.4	59	64	8.1	30 - 130	20	
2-Nitroaniline	ND	3.3	135	133	1.5	154	152	1.3	30 - 130	20	l,m
2-Nitrophenol	ND	0.94	65	67	3.0	66	70	5.9	30 - 130	20	
3&4-Methylphenol (m&p-cresol)	ND	0.94	65	67	3.0	56	64	13.3	30 - 130	20	
3,3'-Dichlorobenzidine	ND	4.7	93	90	3.3	43	39	9.8	30 - 130	20	
3-Nitroaniline	ND	4.7	101	95	6.1	119	121	1.7	30 - 130	20	
4,6-Dinitro-2-methylphenol	ND	0.94	92	95	3.2	118	112	5.2	30 - 130	20	

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
4-Bromophenyl phenyl ether	ND	3.3	95	97	2.1	84	84	0.0	30 - 130	20	
4-Chloro-3-methylphenol	ND	0.94	91	92	1.1	97	105	7.9	30 - 130	20	
4-Chloroaniline	ND	3.3	77	77	0.0	85	87	2.3	30 - 130	20	
4-Chlorophenyl phenyl ether	ND	0.94	78	76	2.6	78	81	3.8	30 - 130	20	
4-Nitroaniline	ND	4.7	88	88	0.0	91	88	3.4	30 - 130	20	
4-Nitrophenol	ND	0.94	101	94	7.2	97	95	2.1	15 - 130	20	
Acetophenone	ND	3.3	64	66	3.1	58	55	5.3	30 - 130	20	
Aniline	ND	3.3	49	53	7.8	54	49	9.7	30 - 130	20	
Benzidine	ND	4.2	28	24	15.4	<10	<10	NC	30 - 130	20	l,m
Benzoic acid	ND	9.4	47	69	37.9	77	99	25.0	30 - 130	20	r
Benzyl butyl phthalate	ND	1.4	100	100	0.0	95	94	1.1	30 - 130	20	
Bis(2-chloroethoxy)methane	ND	3.3	73	75	2.7	79	79	0.0	30 - 130	20	
Bis(2-chloroethyl)ether	ND	0.94	50	51	2.0	51	48	6.1	30 - 130	20	
Bis(2-chloroisopropyl)ether	ND	0.94	50	49	2.0	46	42	9.1	30 - 130	20	
Carbazole	ND	4.7	99	99	0.0	101	100	1.0	30 - 130	20	
Diethyl phthalate	ND	1.4	95	93	2.1	103	105	1.9	30 - 130	20	
Dimethylphthalate	ND	1.4	91	91	0.0	94	96	2.1	30 - 130	20	
Di-n-butylphthalate	ND	1.4	105	101	3.9	102	101	1.0	30 - 130	20	
Di-n-octylphthalate	ND	1.4	110	109	0.9	95	93	2.1	30 - 130	20	
Isophorone	ND	3.3	71	74	4.1	81	80	1.2	30 - 130	20	
N-Nitrosodimethylamine	ND	0.94	46	51	10.3	34	37	8.5	30 - 130	20	
N-Nitrosodi-n-propylamine	ND	3.3	68	69	1.5	70	65	7.4	30 - 130	20	
N-Nitrosodiphenylamine	ND	3.3	85	83	2.4	86	86	0.0	30 - 130	20	
Phenol	ND	0.94	53	56	5.5	33	55	50.0	15 - 130	20	r
% 2,4,6-Tribromophenol	89	%	89	88	1.1	93	91	2.2	15 - 110	20	
% 2-Fluorobiphenyl	45	%	69	68	1.5	71	70	1.4	30 - 130	20	
% 2-Fluorophenol	20	%	39	42	7.4	25	37	38.7	15 - 110	20	r
% Nitrobenzene-d5	30	%	58	59	1.7	57	52	9.2	30 - 130	20	
% Phenol-d5	23	%	47	51	8.2	28	47	50.7	15 - 110	20	r
% Terphenyl-d14	107	%	98	96	2.1	92	95	3.2	30 - 130	20	

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Batch 396490 (mg/Kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)

TPH by GC (Extractable Products) - Sediment

Ext. Petroleum H.C. (C9-C36)	ND	50	87	78	10.9	86	76	12.3	60 - 120	30	
% n-Pentacosane	67	%	74	69	7.0	89	91	2.2	50 - 150	30	

Comment:

Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

QA/QC Batch 396687 (ug/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761, BY77762 (50X) , BY77763)

Volatiles - Sediment

1,1,1,2-Tetrachloroethane	ND	5.0	94	95	1.1	87	81	7.1	70 - 130	30	
1,1,1-Trichloroethane	ND	5.0	104	106	1.9	109	101	7.6	70 - 130	30	
1,1,2,2-Tetrachloroethane	ND	3.0	99	99	0.0	107	92	15.1	70 - 130	30	
1,1,2-Trichloroethane	ND	5.0	100	98	2.0	94	89	5.5	70 - 130	30	
1,1-Dichloroethane	ND	5.0	103	105	1.9	108	101	6.7	70 - 130	30	
1,1-Dichloroethene	ND	5.0	110	110	0.0	110	102	7.5	70 - 130	30	
1,1-Dichloropropene	ND	5.0	102	103	1.0	95	91	4.3	70 - 130	30	
1,2,3-Trichlorobenzene	ND	5.0	100	99	1.0	98	105	6.9	70 - 130	30	
1,2,3-Trichloropropane	ND	5.0	90	90	0.0	85	89	4.6	70 - 130	30	

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,2,4-Trichlorobenzene	ND	5.0	105	104	1.0	101	107	5.8	70 - 130	30	
1,2,4-Trimethylbenzene	ND	1.0	100	100	0.0	98	103	5.0	70 - 130	30	
1,2-Dibromo-3-chloropropane	ND	5.0	92	91	1.1	87	92	5.6	70 - 130	30	
1,2-Dibromoethane	ND	5.0	96	94	2.1	95	87	8.8	70 - 130	30	
1,2-Dichlorobenzene	ND	5.0	96	96	0.0	92	97	5.3	70 - 130	30	
1,2-Dichloroethane	ND	5.0	94	94	0.0	93	89	4.4	70 - 130	30	
1,2-Dichloropropane	ND	5.0	99	99	0.0	94	91	3.2	70 - 130	30	
1,3,5-Trimethylbenzene	ND	1.0	100	101	1.0	100	105	4.9	70 - 130	30	
1,3-Dichlorobenzene	ND	5.0	99	100	1.0	96	100	4.1	70 - 130	30	
1,3-Dichloropropane	ND	5.0	93	92	1.1	94	86	8.9	70 - 130	30	
1,4-Dichlorobenzene	ND	5.0	96	97	1.0	93	98	5.2	70 - 130	30	
2,2-Dichloropropane	ND	5.0	108	108	0.0	103	93	10.2	70 - 130	30	
2-Chlorotoluene	ND	5.0	98	99	1.0	98	104	5.9	70 - 130	30	
2-Hexanone	ND	25	93	95	2.1	30	33	9.5	70 - 130	30	m
2-Isopropyltoluene	ND	5.0	104	106	1.9	103	109	5.7	70 - 130	30	
4-Chlorotoluene	ND	5.0	97	99	2.0	96	102	6.1	70 - 130	30	
4-Methyl-2-pentanone	ND	25	106	106	0.0	93	100	7.3	70 - 130	30	
Acetone	ND	10	105	102	2.9	84	91	8.0	70 - 130	30	
Acrylonitrile	ND	5.0	109	107	1.9	99	103	4.0	70 - 130	30	
Benzene	ND	1.0	102	102	0.0	98	92	6.3	70 - 130	30	
Bromobenzene	ND	5.0	96	96	0.0	93	83	11.4	70 - 130	30	
Bromochloromethane	ND	5.0	102	102	0.0	109	103	5.7	70 - 130	30	
Bromodichloromethane	ND	5.0	102	101	1.0	93	84	10.2	70 - 130	30	
Bromoform	ND	5.0	97	97	0.0	77	64	18.4	70 - 130	30	m
Bromomethane	ND	5.0	119	120	0.8	100	90	10.5	70 - 130	30	
Carbon Disulfide	ND	5.0	129	132	2.3	112	101	10.3	70 - 130	30	l
Carbon tetrachloride	ND	5.0	103	103	0.0	98	87	11.9	70 - 130	30	
Chlorobenzene	ND	5.0	93	94	1.1	82	77	6.3	70 - 130	30	
Chloroethane	ND	5.0	118	120	1.7	118	110	7.0	70 - 130	30	
Chloroform	ND	5.0	105	105	0.0	108	102	5.7	70 - 130	30	
Chloromethane	ND	5.0	111	113	1.8	111	100	10.4	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	106	107	0.9	109	101	7.6	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	98	100	2.0	75	67	11.3	70 - 130	30	m
Dibromochloromethane	ND	3.0	99	98	1.0	88	75	16.0	70 - 130	30	
Dibromomethane	ND	5.0	97	97	0.0	101	97	4.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	128	130	1.6	128	115	10.7	70 - 130	30	
Ethylbenzene	ND	1.0	99	99	0.0	85	81	4.8	70 - 130	30	
Hexachlorobutadiene	ND	5.0	98	101	3.0	101	106	4.8	70 - 130	30	
Isopropylbenzene	ND	1.0	101	102	1.0	96	87	9.8	70 - 130	30	
m&p-Xylene	ND	2.0	99	101	2.0	85	82	3.6	70 - 130	30	
Methyl ethyl ketone	ND	5.0	106	103	2.9	92	96	4.3	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	113	114	0.9	126	113	10.9	70 - 130	30	
Methylene chloride	ND	5.0	91	93	2.2	96	89	7.6	70 - 130	30	
Naphthalene	ND	5.0	100	98	2.0	99	108	8.7	70 - 130	30	
n-Butylbenzene	ND	1.0	105	107	1.9	102	108	5.7	70 - 130	30	
n-Propylbenzene	ND	1.0	99	101	2.0	85	79	7.3	70 - 130	30	
o-Xylene	ND	2.0	103	104	1.0	91	86	5.6	70 - 130	30	
p-Isopropyltoluene	ND	1.0	102	105	2.9	101	108	6.7	70 - 130	30	
sec-Butylbenzene	ND	1.0	104	107	2.8	103	111	7.5	70 - 130	30	
Styrene	ND	5.0	102	103	1.0	75	66	12.8	70 - 130	30	m
tert-Butylbenzene	ND	1.0	101	101	0.0	100	106	5.8	70 - 130	30	
Tetrachloroethene	ND	5.0	101	102	1.0	84	81	3.6	70 - 130	30	
Tetrahydrofuran (THF)	ND	5.0	104	103	1.0	112	97	14.4	70 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Toluene	ND	1.0	101	101	0.0	92	89	3.3	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	105	108	2.8	108	99	8.7	70 - 130	30	
trans-1,3-Dichloropropene	ND	5.0	97	97	0.0	79	72	9.3	70 - 130	30	
trans-1,4-dichloro-2-butene	ND	5.0	104	104	0.0	88	95	7.7	70 - 130	30	
Trichloroethene	ND	5.0	100	101	1.0	92	87	5.6	70 - 130	30	
Trichlorofluoromethane	ND	5.0	114	115	0.9	112	102	9.3	70 - 130	30	
Trichlorotrifluoroethane	ND	5.0	116	119	2.6	111	104	6.5	70 - 130	30	
Vinyl chloride	ND	5.0	113	116	2.6	117	104	11.8	70 - 130	30	
% 1,2-dichlorobenzene-d4	104	%	99	100	1.0	101	98	3.0	70 - 130	30	
% Bromofluorobenzene	94	%	100	100	0.0	95	98	3.1	70 - 130	30	
% Dibromofluoromethane	110	%	103	102	1.0	109	104	4.7	70 - 130	30	
% Toluene-d8	101	%	100	100	0.0	96	97	1.0	70 - 130	30	

Comment:

Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

QA/QC Batch 396363 (ug/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)

Semivolatiles (SIM) - Sediment

1,2,4,5-Tetrachlorobenzene	ND	6.7	57	54	5.4	64	64	0.0	30 - 130	30	
2-Methylnaphthalene	ND	3.3	49	47	4.2	57	56	1.8	30 - 130	30	
Acenaphthene	ND	3.3	60	57	5.1	68	69	1.5	30 - 130	30	
Acenaphthylene	ND	3.3	58	56	3.5	65	65	0.0	30 - 130	30	
Anthracene	ND	3.3	65	61	6.3	67	77	13.9	30 - 130	30	
Benz(a)anthracene	ND	3.3	62	59	5.0	71	88	21.4	30 - 130	30	
Benzo(a)pyrene	ND	3.5	67	64	4.6	69	82	17.2	30 - 130	30	
Benzo(b)fluoranthene	ND	3.3	68	67	1.5	75	81	7.7	30 - 130	30	
Benzo(ghi)perylene	ND	3.5	53	52	1.9	55	51	7.5	30 - 130	30	
Benzo(k)fluoranthene	ND	3.3	67	63	6.2	64	75	15.8	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	12	75	72	4.1	91	91	0.0	30 - 130	30	
Chrysene	ND	3.5	69	65	6.0	74	87	16.1	30 - 130	30	
Dibenz(a,h)anthracene	ND	3.3	62	60	3.3	79	78	1.3	30 - 130	30	
Fluoranthene	ND	3.3	60	58	3.4	47	86	58.6	30 - 130	30	r
Fluorene	ND	3.3	59	55	7.0	67	72	7.2	30 - 130	30	
Hexachlorobenzene	ND	3.3	68	62	9.2	62	62	0.0	30 - 130	30	
Hexachlorobutadiene	ND	6.7	54	51	5.7	62	60	3.3	30 - 130	30	
Hexachloroethane	ND	6.7	55	52	5.6	18	13	32.3	30 - 130	30	m,r
Indeno(1,2,3-cd)pyrene	ND	3.3	58	57	1.7	67	66	1.5	30 - 130	30	
Naphthalene	ND	3.3	47	45	4.3	58	54	7.1	30 - 130	30	
Pentachloronitrobenzene	ND	6.7	79	73	7.9	79	77	2.6	30 - 130	30	
Pentachlorophenol	ND	6.7	42	36	15.4	76	79	3.9	30 - 130	30	
Phenanthrene	ND	3.3	59	56	5.2	64	106	49.4	30 - 130	30	r
Phenol	ND	6.7	54	52	3.8	57	57	0.0	30 - 130	30	
Pyrene	ND	3.3	61	60	1.7	42	73	53.9	30 - 130	30	r
Pyridine	ND	6.7	44	35	22.8	45	36	22.2	30 - 130	30	
% 2,4,6-Tribromophenol	51	%	77	74	4.0	84	85	1.2	15 - 130	30	
% 2-Fluorobiphenyl	60	%	62	58	6.7	64	63	1.6	30 - 130	30	
% 2-Fluorophenol	60	%	54	50	7.7	56	54	3.6	15 - 130	30	
% Nitrobenzene-d5	70	%	60	59	1.7	68	66	3.0	30 - 130	30	
% Phenol-d5	72	%	61	59	3.3	65	65	0.0	15 - 130	30	
% Terphenyl-d14	63	%	70	72	2.8	60	57	5.1	30 - 130	30	

Comment:

Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 396363 (ug/kg), QC Sample No: BY77757 (BY77754, BY77755, BY77757, BY77759, BY77761)											
Semivolatiles - Sediment											
1,2,4,5-Tetrachlorobenzene	ND	230	69	67	2.9	84	85	1.2	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	68	64	6.1	82	80	2.5	30 - 130	30	
1,2-Dichlorobenzene	ND	180	57	53	7.3	68	63	7.6	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	80	78	2.5	71	74	4.1	30 - 130	30	
1,3-Dichlorobenzene	ND	230	55	50	9.5	65	56	14.9	30 - 130	30	
1,4-Dichlorobenzene	ND	230	54	51	5.7	67	61	9.4	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	83	77	7.5	87	86	1.2	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	76	72	5.4	85	82	3.6	30 - 130	30	
2,4-Dichlorophenol	ND	130	80	73	9.2	86	90	4.5	30 - 130	30	
2,4-Dimethylphenol	ND	230	70	65	7.4	77	67	13.9	30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	80	81	1.2	30 - 130	30	l
2,4-Dinitrotoluene	ND	130	80	76	5.1	83	79	4.9	30 - 130	30	
2,6-Dinitrotoluene	ND	130	74	73	1.4	79	79	0.0	30 - 130	30	
2-Chloronaphthalene	ND	230	77	73	5.3	78	79	1.3	30 - 130	30	
2-Chlorophenol	ND	230	64	61	4.8	74	75	1.3	30 - 130	30	
2-Methylnaphthalene	ND	230	67	64	4.6	78	77	1.3	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	70	66	5.9	75	75	0.0	30 - 130	30	
2-Nitroaniline	ND	330	110	105	4.7	89	88	1.1	30 - 130	30	
2-Nitrophenol	ND	230	62	60	3.3	72	70	2.8	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	69	65	6.0	79	78	1.3	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	86	80	7.2	13	17	26.7	30 - 130	30	m
3-Nitroaniline	ND	330	75	72	4.1	65	66	1.5	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	33	31	6.3	76	79	3.9	30 - 130	30	
4-Bromophenyl phenyl ether	ND	230	81	78	3.8	83	82	1.2	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	84	77	8.7	86	86	0.0	30 - 130	30	
4-Chloroaniline	ND	230	69	62	10.7	45	50	10.5	30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	76	72	5.4	80	77	3.8	30 - 130	30	
4-Nitroaniline	ND	230	75	74	1.3	76	78	2.6	30 - 130	30	
4-Nitrophenol	ND	230	74	70	5.6	<10	<10	NC	30 - 130	30	m
Acenaphthene	ND	230	77	71	8.1	82	86	4.8	30 - 130	30	
Acenaphthylene	ND	130	77	73	5.3	81	83	2.4	30 - 130	30	
Acetophenone	ND	230	60	57	5.1	73	71	2.8	30 - 130	30	
Aniline	ND	330	44	38	14.6	33	24	31.6	30 - 130	30	m,r
Anthracene	ND	230	84	81	3.6	90	98	8.5	30 - 130	30	
Benz(a)anthracene	ND	230	84	77	8.7	84	104	21.3	30 - 130	30	
Benzidine	ND	330	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	130	79	73	7.9	76	92	19.0	30 - 130	30	
Benzo(b)fluoranthene	ND	160	80	76	5.1	80	108	29.8	30 - 130	30	
Benzo(ghi)perylene	ND	230	83	74	11.5	68	71	4.3	30 - 130	30	
Benzo(k)fluoranthene	ND	230	86	77	11.0	95	95	0.0	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	88	79	10.8	30 - 130	30	l
Benzyl butyl phthalate	ND	230	80	78	2.5	81	78	3.8	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	74	70	5.6	85	81	4.8	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	53	52	1.9	64	64	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	53	51	3.8	62	58	6.7	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	92	90	2.2	90	87	3.4	30 - 130	30	
Carbazole	ND	230	84	82	2.4	86	87	1.2	30 - 130	30	
Chrysene	ND	230	83	77	7.5	89	103	14.6	30 - 130	30	
Dibenz(a,h)anthracene	ND	130	84	75	11.3	83	83	0.0	30 - 130	30	
Dibenzofuran	ND	230	78	74	5.3	79	82	3.7	30 - 130	30	

QA/QC Data

SDG I.D.: GBY77751

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Diethyl phthalate	ND	230	82	79	3.7	81	81	0.0	30 - 130	30	
Dimethylphthalate	ND	230	79	77	2.6	80	80	0.0	30 - 130	30	
Di-n-butylphthalate	ND	230	87	80	8.4	77	75	2.6	30 - 130	30	
Di-n-octylphthalate	ND	230	81	76	6.4	79	79	0.0	30 - 130	30	
Fluoranthene	ND	230	83	76	8.8	85	149	54.7	30 - 130	30	m,r
Fluorene	ND	230	81	77	5.1	84	89	5.8	30 - 130	30	
Hexachlorobenzene	ND	130	80	77	3.8	81	82	1.2	30 - 130	30	
Hexachlorobutadiene	ND	230	68	64	6.1	83	73	12.8	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	39	36	8.0	<10	<10	NC	30 - 130	30	m
Hexachloroethane	ND	130	56	53	5.5	42	31	30.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	82	73	11.6	68	68	0.0	30 - 130	30	
Isophorone	ND	130	64	61	4.8	77	76	1.3	30 - 130	30	
Naphthalene	ND	230	65	62	4.7	83	80	3.7	30 - 130	30	
Nitrobenzene	ND	130	63	61	3.2	72	71	1.4	30 - 130	30	
N-Nitrosodimethylamine	ND	230	53	48	9.9	62	55	12.0	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	64	62	3.2	75	74	1.3	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	84	80	4.9	79	77	2.6	30 - 130	30	
Pentachloronitrobenzene	ND	230	77	73	5.3	84	78	7.4	30 - 130	30	
Pentachlorophenol	ND	230	23	22	4.4	86	91	5.6	30 - 130	30	l
Phenanthrene	ND	130	77	73	5.3	86	139	47.1	30 - 130	30	m,r
Phenol	ND	230	68	63	7.6	84	83	1.2	30 - 130	30	
Pyrene	ND	230	86	82	4.8	81	141	54.1	30 - 130	30	m,r
Pyridine	ND	230	38	33	14.1	47	41	13.6	30 - 130	30	
% 2,4,6-Tribromophenol	47	%	78	81	3.8	83	86	3.6	30 - 130	30	
% 2-Fluorobiphenyl	73	%	74	71	4.1	72	71	1.4	30 - 130	30	
% 2-Fluorophenol	46	%	55	52	5.6	64	62	3.2	30 - 130	30	
% Nitrobenzene-d5	58	%	61	56	8.5	68	68	0.0	30 - 130	30	
% Phenol-d5	58	%	65	61	6.3	70	70	0.0	30 - 130	30	
% Terphenyl-d14	84	%	93	92	1.1	72	73	1.4	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%)

l = This parameter is outside laboratory LCS/LCSD specified recovery limits.
m = This parameter is outside laboratory MS/MSD specified recovery limits.
r = This parameter is outside laboratory RPD specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
August 25, 2017

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Phoenix Environmental Labs, Inc. ***Client:*** Fuss & O'Neill, Inc.

Project Location: ANOCOIL ECO RISK ***Project Number:***

Laboratory Sample ID(s): BY77751-BY77763 ***Sampling Date(s):*** 8/3/2017

List RCP Methods Used (e.g., 8260, 8270, et cetera) 6010, 7470/7471, 8260, 8270, ETPH

1	**For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CT DEP method-specific Reasonable Confidence Protocol documents?**	☑ Yes ☐ No
1A	**Were the method specified preservation and holding time requirements met?**	☑ Yes ☐ No
1B	***VPH and EPH methods only:*** **Was the VPH or EPH method conducted without significant modifications (see section 11.3 of respective RCP methods)**	☐ Yes ☐ No ☑ NA
2	**Were all samples received by the laboratory in a condition consistent with that described on the associated Chain-of-Custody document(s)?**	☑ Yes ☐ No
3	**Were samples received at an appropriate temperature (< 6 Degrees C)?**	☑ Yes ☐ No ☐ NA
4	**Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents acheived? See Sections: ICP Narration, SVOA Narration, SVOASIM Narration, VOA Narration.**	☐ Yes ☑ No
5	**a) Were reporting limits specified or referenced on the chain-of-custody?** **b) Were these reporting limits met?**	☑ Yes ☐ No ☐ Yes ☑ No
6	**For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?**	☐ Yes ☑ No
7	**Are project-specific matrix spikes and laboratory duplicates included in the data set?**	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A or 1B is "No", the data package does not meet the requirements for "Reasonable Confidence". This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Ethan Lee **Position:** Project Manager

Printed Name: Ethan Lee **Date:** Friday, August 25, 2017

Name of Laboratory Phoenix Environmental Labs, Inc.

This certification form is to be used for RCP methods only.

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

August 25, 2017

SDG I.D.: GBY77751

SDG Comments

Metals Analysis:
The client requested a site specific list of elements which is shorter than the 6010 RCP list.

Semi-Volatile Analysis (BY77754, BY77755, BY77757, BY77759):
Where the LOD justifies lowering the RL/PQL, the RL/PQL of some compounds are evaluated below the lowest calibration standard in order to meet criteria. Not all requested reporting levels were achieved.

BY77761 - Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

Anthracene, Benzo(a)anthracene, Benzo(a)pyrene and Pyrene were evaluated to 0.02 ug/L in the surface water samples. This was the lowest achievable level for these compounds. (The WQC is below 0.02 ug/L for Anthracene, Benzo(a)anthracene, Benzo(a)pyrene)

EPA Reg III FW Screen:
Some compounds were evaluated below the lowest calibration standard in order to meet the requested criteria. The requested criteria could not be achieved for some compounds because the limit of detection (LOD) was greater than the criteria.

ETPH Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument:

AU-FID1 08/07/17-1 Jeff Bucko, Chemist 08/07/17

BY77754, BY77755, BY77757, BY77759

The initial calibration (ETPH804I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-FID11 08/07/17-1 Jeff Bucko, Chemist 08/07/17

BY77761

The initial calibration (ETPH719I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

AU-XL1 08/08/17-1 Jeff Bucko, Chemist 08/08/17

BY77752, BY77753, BY77756, BY77758, BY77760

The initial calibration (ETPH718I) RSD for the compound list was less than 30% except for the following compounds: None.
The continuing calibration %D for the compound list was less than 30% except for the following compounds:None.

QC (Site Specific):

Batch 396490 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been

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SDG I.D.: GBY77751

ETPH Narration

normalized based on the alkane calibration.

Batch 396727 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 60 - 120 with the following exceptions: None.
All LCSD recoveries were within 60 - 120 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 50 - 150 with the following exceptions: None.
All MSD recoveries were within 50 - 150 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: None.
Additional surrogate criteria: LCS acceptance range is 60-120% MS acceptance range 50-150%. The ETPH/DRO LCS has been normalized based on the alkane calibration.

Mercury Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

MERLIN 08/04/17 07:51 Rick Schweitzer, Chemist 08/04/17

BY77752, BY77753, BY77756, BY77758, BY77760

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

MERLIN 08/07/17 08:15 Rick Schweitzer, Chemist 08/07/17

BY77754, BY77755, BY77757, BY77759, BY77761

The method preparation blank contains all of the acids and reagents as the samples; the instrument blanks do not.
The initial calibration met all criteria including a standard run at or below the reporting level.
All calibration verification standards (ICV, CCV) met criteria.
All calibration blank verification standards (ICB, CCB) met criteria.
The matrix spike sample is used to identify spectral interference for each batch of samples, if within 85-115%, no interference is observed and no further action is taken.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 396439 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-

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SDG I.D.: GBY77751

Mercury Narration

125%.

Batch 396443 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 80 - 120 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

Batch 396645 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%. MS acceptance range is 75-125%.

ICP Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? No.

QC Batch 396360 (Samples: BY77754, BY77755, BY77757, BY77759, BY77761): -----

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Copper, Zinc)

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Copper, Nickel, Zinc)

QC Batch 396383 (Samples: BY77752, BY77753, BY77756, BY77758, BY77760): -----

The Sample/Duplicate RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aluminum)

Instrument:

ARCOS 08/04/17 06:16 Laura Kinnin, Chemist 08/04/17

BY77754, BY77755, BY77757, BY77759, BY77761

Additional criteria for CCV and ICSAB:
Sodium and Potassium are poor performing elements, the laboratory's in-house limits are 85-115% (CCV) and 70-130% (ICSAB).The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

BLUE 08/04/17 10:15 Laura Kinnin, Chemist 08/04/17

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SDG I.D.: GBY77751

ICP Metals Narration

BY77752, BY77753, BY77756, BY77758, BY77760

The initial calibration met criteria.
The continuing calibration standards met criteria for all the elements reported. The linear range is defined daily by the calibration range.
The continuing calibration blanks were less than the reporting level for the elements reported.
The ICSA and ICSAB were analyzed at the beginning and end of the run and were within criteria.The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.
The following ICP Interference Check (ICSAB) compounds did not meet criteria: None.

QC (Site Specific):

Batch 396360 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: Copper(>130%), Zinc(>130%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.

Batch 396383 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

Batch 396401 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

ICPMS Metals Narration

Were all QA/QC performance criteria specified in the analytical method achieved? Yes.

Instrument:

ICPMS 08/05/17 08:41 Laura Kinnin, Chemist 08/05/17

BY77752, BY77753, BY77756, BY77758, BY77760

The linear range is defined daily by the calibration range.
The following Initial Calibration Verification (ICV) compounds did not meet criteria: None.
The following Continuing Calibration Verification (CCV) compounds did not meet criteria: None.

QC (Site Specific):

Batch 396402 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

Batch 396553 (BY77756)

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ICPMS Metals Narration

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 75 - 125 with the following exceptions: None.
All MS recoveries were within 75 - 125 with the following exceptions: None.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 396363 (Samples: BY77754, BY77755, BY77757, BY77759, BY77761): -----

One or more analytes is below the method criteria. A low bias for these analytes is possible. (2,4-Dinitrophenol, Benzoic Acid, Pentachlorophenol)

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. (3,3''-Dichlorobenzidine, 4-Nitrophenol, Aniline, Hexachlorocyclopentadiene)

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Fluoranthene, Phenanthrene, Pyrene)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Aniline, Fluoranthene, Phenanthrene, Pyrene)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Benzidine)

QC Batch 396373 (Samples: BY77752, BY77753, BY77756, BY77758, BY77760): -----

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. (Benzoic acid)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Benzoic acid, Phenol)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorophenol, % Phenol-d5)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (Benzidine)

The QC recovery for one or more analytes is above the upper range but were not reported in the sample(s), therefore no significant bias is suspected. (2-Nitroaniline)

Instrument:

CHEM05 08/07/17-1 Damien Drobinski, Chemist 08/07/17

BY77752, BY77753, BY77756, BY77758, BY77760

Initial Calibration Verification (CHEM05/SPLIT_0718):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 34% (20%), 2-Nitroaniline 25% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.070 (0.1)

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SVOA Narration

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM05/0807_04-SPLIT_0718):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.083 (0.1)
The following compounds did not meet minimum response factors: None.

CHEM06 08/07/17-1 Damien Drobinski, Chemist 08/07/17

BY77754, BY77755, BY77757, BY77759, BY77761

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/SPLIT_0724):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol 61% (20%), 4,6-Dinitro-2-methylphenol 31% (20%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.061 (0.1), Hexachlorobenzene 0.077 (0.1)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM06/0807_02-SPLIT_0724):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
99% of target compounds met criteria.
The following compounds did not meet % deviation criteria: 2,4-Dinitrophenol 49%H (30%)
The following compounds did not meet maximum % deviations: 2,4-Dinitrophenol 49%H (40%)
The following compounds did not meet recommended response factors: 2-Nitrophenol 0.056 (0.1), Hexachlorobenzene 0.076 (0.1)
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 396363 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), Benzidine(<10%), Benzoic Acid(<10%), Pentachlorophenol(23%)
All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), Benzidine(<10%), Benzoic Acid(<10%), Pentachlorophenol(22%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 30 - 130 with the following exceptions: 3,3'-Dichlorobenzidine(13%), 4-Nitrophenol(<10%), Benzidine(<10%), Hexachlorocyclopentadiene(<10%)
All MSD recoveries were within 30 - 130 with the following exceptions: 3,3'-Dichlorobenzidine(17%), 4-Nitrophenol(<10%), Aniline(24%), Benzidine(<10%), Fluoranthene(149%), Hexachlorocyclopentadiene(<10%), Phenanthrene(139%), Pyrene(141%)
All MS/MSD RPDs were less than 30% with the following exceptions: Aniline(31.6%), Fluoranthene(54.7%), Phenanthrene(47.1%), Pyrene(54.1%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid

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SDG I.D.: GBY77751

SVOA Narration

surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 396373 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(135%), Benzidine(28%)
All LCSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(133%), Benzidine(24%)
All LCS/LCSD RPDs were less than 20% with the following exceptions: Benzoic acid(37.9%)
All MS recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(154%), Benzidine(<10%)
All MSD recoveries were within 30 - 130 with the following exceptions: 2-Nitroaniline(152%), Benzidine(<10%)
All MS/MSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(38.7%), % Phenol-d5(50.7%), Benzoic acid(25.0%), Phenol(50.0%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 396363 (Samples: BY77754, BY77755, BY77757, BY77759, BY77761): -----

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. (Hexachloroethane)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Fluoranthene, Hexachloroethane, Phenanthrene, Pyrene)

QC Batch 396373 (Samples: BY77752, BY77753, BY77756, BY77758, BY77760): -----

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. (Hexachlorocyclopentadiene)

The MS/MSD RPD exceeds the method criteria for one or more surrogates, therefore there may be variability in the reported result. (% 2-Fluorophenol, % Phenol-d5)

Instrument:

CHEM04 08/04/17-1 Damien Drobinski, Chemist 08/04/17

BY77754, BY77755, BY77757, BY77759

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_0626):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.288 (0.3)

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SVOASIM Narration

The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0804_02-SIM_0626):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

CHEM04 08/07/17-1 Damien Drobinski, Chemist 08/07/17

BY77752, BY77753, BY77756, BY77758, BY77760

The DDT breakdown and pentachlorophenol & benzidine peak tailing were evaluated in the DFTPP tune and were found to be in control.

In the event that lower detection levels were requested, the samples may have been analyzed by selective ion monitoring (SIM) mode.

Initial Calibration Verification (CHEM04/SIM_0626):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.288 (0.3)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM04/0807_02-SIM_0626):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
96% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: Hexachloroethane 0.294 (0.3)
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 396363 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761

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: Hexachloroethane(18%)
All MSD recoveries were within 30 - 130 with the following exceptions: Hexachloroethane(13%)
All MS/MSD RPDs were less than 30% with the following exceptions: Fluoranthene(58.6%), Hexachloroethane(32.3%), Phenanthrene(49.4%), Pyrene(53.9%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

Batch 396373 (BY77756)

BY77752, BY77753, BY77756, BY77758, BY77760

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SDG I.D.: GBY77751

SVOASIM Narration

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.
All MS recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(29%)
All MSD recoveries were within 30 - 130 with the following exceptions: Hexachlorocyclopentadiene(26%)
All MS/MSD RPDs were less than 20% with the following exceptions: % 2-Fluorophenol(38.7%), % Phenol-d5(53.7%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8270 criteria:20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

VOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 396687 (Samples: BY77754, BY77755, BY77757, BY77759, BY77761, BY77762, BY77763): -----

The LCS and/or the LCSD recovery is above the upper range for one or more analytes that were not reported in the sample(s), therefore no significant bias is suspected. (Carbon Disulfide)

The LCS/LCSD recovery is acceptable. One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely. (2-Hexanone, Bromoform, cis-1,3-Dichloropropene, Styrene)

QC Batch 396725 (Samples: BY77751, BY77752, BY77753, BY77756, BY77758, BY77760): -----

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. (Bromomethane)

The MS/MSD RPD exceeds the method criteria for one or more analytes, therefore there may be variability in the reported result. (Bromomethane)

Instrument:

CHEM17 08/04/17-2 Michael Hahn, Chemist 08/04/17

BY77751, BY77752, BY77753, BY77756, BY77758, BY77760

Initial Calibration Verification (CHEM17/VT-S0803):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: 2-Hexanone 21% (20%)
The following compounds did not meet recommended response factors: 1,2-Dibromo-3-chloropropane 0.034 (0.05), 2-Hexanone 0.068 (0.1), 4-Methyl-2-pentanone 0.091 (0.1), Acetone 0.045 (0.1), Bromoform 0.086 (0.1), Methyl ethyl ketone 0.058 (0.1), Tetrahydrofuran (THF) 0.038 (0.05)
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM17/0804S25-VT-S0803):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: 1,1,2,2-Tetrachloroethane 0.294 (0.3), 1,2-Dibromo-3-

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VOA Narration

chloropropane 0.031 (0.05), Bromoform 0.079 (0.1), Tetrahydrofuran (THF) 0.039 (0.05)
The following compounds did not meet minimum response factors: None.

CHEM26 08/04/17-1 Jane Li, Chemist 08/04/17

BY77754, BY77755, BY77757, BY77759, BY77761, BY77762, BY77763

Initial Calibration Verification (CHEM26/VT-0727):
99% of target compounds met criteria.
The following compounds had %RSDs >20%: Methylene chloride 21% (20%)
The following compounds did not meet recommended response factors: None.
The following compounds did not meet a minimum response factors: None.

Continuing Calibration Verification (CHEM26/0804_02-VT-0727):
Internal standard areas were within 50 to 200% of the initial calibration with the following exceptions: None.
100% of target compounds met criteria.
The following compounds did not meet % deviation criteria: None.
The following compounds did not meet maximum % deviations: None.
The following compounds did not meet recommended response factors: None.
The following compounds did not meet minimum response factors: None.

QC (Site Specific):

Batch 396687 (BY77757)

BY77754, BY77755, BY77757, BY77759, BY77761, BY77762, BY77763

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: Carbon Disulfide(132%)
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(30%)
All MSD recoveries were within 70 - 130 with the following exceptions: 2-Hexanone(33%), Bromoform(64%), cis-1,3-Dichloropropene(67%), Styrene(66%)
All MS/MSD RPDs were less than 30% with the following exceptions: None.
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Batch 396725 (BY77756)

BY77751, BY77752, BY77753, BY77756, BY77758, BY77760

All LCS recoveries were within 70 - 130 with the following exceptions: None.
All LCSD recoveries were within 70 - 130 with the following exceptions: None.
All LCS/LCSD RPDs were less than 30% with the following exceptions: None.
All MS recoveries were within 70 - 130 with the following exceptions: Bromomethane(62%)
All MSD recoveries were within 70 - 130 with the following exceptions: None.
All MS/MSD RPDs were less than 30% with the following exceptions: Bromomethane(32.4%)
A matrix effect is suspected when a MS/MSD recovery is outside of criteria. No further action is required if LCS/LCSD compounds are within criteria.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.
Additional 8260 criteria: 10% of LCS/LCSD compounds can be outside of acceptance criteria as long as recovery is 40-160%.

Temperature Narration

Environmental Laboratories, Inc.
587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

August 25, 2017

SDG I.D.: GBY77751

The samples in this delivery group were received at 5.5°C.
(Note acceptance criteria is above freezing up to 6°C)

5.5WQIP

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

X 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 37572

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☑ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Amocoil Eco Risk	Vernon, CT	2001454.P70	Phoenix

REPORT TO: Kevin Vanderveer, Fto
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 8/3/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	SVOCs	EPH	RCRA 8 + Al, Cu, Ni, Zn (Total)	RCRA 8 + Al, Cu, Ni, Zn (Dissolved)	pH ‡	TOC	Hardness, alkalinity, conductivity	Soil VOA Vial, ☑ methanol	Soil VOA Vial, ☑ water	Glass Soil Container (8) oz ☐ $Na(SO_4)_2$	Other:	Other: Amber 4oz H_3PO_4	Water VOA Vial, ☐ As is ☑ HCl	Glass Amber (1000) ml, ☐ As is	Plastic - As is, ☑ 250 ml ☐ H_2SO_4	Plastic - H_2SO_4, ☐ 500 ☐ 1000 ml	Plastic - HNO_3, 250 ml ☐ ~~500 ml~~ ☐ As is 120 ml	Plastic ~~Filtered~~ ☐ 0.45µ ☐ 0.1µ ~~Field~~ ☐ ~~Lab~~ ☐ ~~None~~ 250 ml ☐ ~~Filtered~~ ☐ 0.45µ ☐ 0.1µ FP103 0.45µ	Comments
1		790170803-01	X	8/3/17	0830	✓												2							77751 TB water
2		-02	SW		0900		✓	✓	✓	✓	✓	✓	✓					1	3	3	1	1	1	1	77752
3		-03	SW		0905					✓			✓					1	3	3	1	1	1	1	77753
4		-04	B		0910									1	2	1									77754
5		-05	B		0915									1	2	1									77755
6		-06	SW		0945					✓			✓					1*	9	9	3	3	3	3	77756 ms/msd
7		-07	B		0950									3	6	3									77757 ms/msd
8		-08	SW		1010					✓			✓					1	3	3	1	1	1	1	77758
9		-09	B		1015									1	2	1									77759
10		-10	SW		1120					✓			✓					1	3	3	1	1	1	1	77760

Transfer Number	Relinquished By	Accepted By	Date	Time
1	K. Connell	[signature]	8/3/17	1400
2	[signature]	TROWN	8/3/17	14:33
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☑ QA/QC ☐ Other _____
2 Duplicates ☑ Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☑ RCP Deliverables ☐ MCP CAM Cert.
See attached ecological screening levels
Additional Comments:
1 blind duplicate for each matrix (no charge)
* limited sample for TOC

5.5 WOID

FUSS & O'NEILL
(860) 646-2469 • www.FandO.com

☑ 146 Hartford Road, Manchester, CT 06040
☐ 56 Quarry Road, Trumbull, CT 06611
☐ 1419 Richland Street, Columbia, SC 29201
☐ 78 Interstate Drive, West Springfield, MA 01089
☐ 317 Iron Horse Way, Suite 204, Providence, RI 02908
☐ 80 Washington Street, Suite 301, Poughkeepsie, NY
☐ Other _____

CHAIN-OF-CUSTODY RECORD 37573

Turnaround
☐ 24-Hour* ☐ 72-Hour* ☐ Other _____ (days)
☐ 48-Hour* ☑ Standard (5 days) *Surcharge Applies

PROJECT NAME	PROJECT LOCATION	PROJECT NUMBER	LABORATORY
Anocoil EcoRisk	Vernon, CT	2001454.P70	Phoenix

REPORT TO: Kevin Vanderveer, f+O
INVOICE TO: ↓
P.O. NO.:
Sampler's Signature: [signature] Date: 8/3/17

Source Codes:
MW=Monitoring Well PW=Potable Water T=Treatment Facility S=Soil B=Sediment
SW=Surface Water ST=Stormwater W=Waste A=Air C=Concrete
X=Other Trip Blank

Analysis Request / Containers

Item No.	Transfer Check 1 2 3 4	Sample Number	Source Code	Date Sampled	Time Sampled	VOCs	SVOCs	ETPH	RCRA8+Al,Cu,Ni,Zn (Total)	PCBs	pH	TOC	Soil VOA Vial, ☑ methanol	Soil VOA Vial, ☐ water	Glass Soil Container (8) oz	Other:	Other:	Water VOA Vial, ☐ As is	Glass Amber (1000) ml, ☑ As is	Plastic - As is, ☑ HCl	Plastic - ~~H2SO4~~ ☐ As is ☐ H_2SO_4	Plastic - HNO_3, 250 ml ☐ 500 ml ☐ 1000 ml	Plastic - NaOH, 250 ml ☐ Filtered ☐ 0.45µ ☐ 10µ	Comments
11		790170803-11	B	8/3/17	1125	✓	✓	✓	✓	✓	✓		1	2	1						☐ 250 ml ☐ 500 ml			77761
12		-12	X	↓	1230	↓							1											77762 TB high
13		-13	X	↓	1235	↓								2										TB low 77763

Transfer Number	Relinquished By	Accepted By	Date	Time
1	K. Connell	[signature]	8/3/17	1400
2	[signature]	TTOWN	8/3/17	1433
3				
4				

Charge Exceptions: ☐ CT Tax Exempt ☑ QA/QC ☐ Other _____
0 Duplicates 2 Blanks (Item Nos:)
Reporting and Detection Limit Requirements: ☑ RCP Deliverables ☐ MCP CAM Cert.
Ecological detection limits
Additional Comments:

Anocoil Ecological Risk Assessment
Ecological Screening Criteria
Vernon, Connecticut

Constituents	SQG Sediment	WQC Surface Water
Metals	**mg/kg**	**mg/L**
Aluminum	---	0.087
Arsenic	9.79	0.005
Barium	1.4	0.004
Cadmium	0.99	0.000125
Chromium	43.4	0.042
Copper	31.6	0.00158
Lead	35.8	0.00117
Mercury	0.174	0.0000013
Nickel	22.7	0.0289
Selenium	2	0.001
Silver	0.5	0.00012
Zinc	121	0.065
Semi-Volatile Organic Compounds	**ug/kg**	**ug/L**
2-Methylnaphthalene	20.2	4.7
Acenaphthene	6.7	5.8
Acenaphthylene	5.87	4840
Anthracene	57	0.012
Benzo(a)anthracene	108	0.018
Benzo(a)pyrene	150	0.014
Benzo(b)fluoranthene	10,400	9.07
Benzo(g,h,i)perylene	170	7.64
Benzo(k)fluoranthene	240	NTC
Bis(2-ethylhexyl)phthalate	180	0.3
Chrysene	166	---
Dibenz(a,h)anthracene	33	---
Dibenzofuran	415	3.7
Fluoranthene	423	0.04
Fluorene	77.4	3
Indeno(1,2,3-cd)pyrene	17	4.31
Naphthalene	176	1.1
Phenanthrene	204	0.4
Phenol	49	4
Pyrene	195	0.025

Constituents	SQG Sediment	WQC Surface Water
Volatile Organic Compounds	**ug/kg**	**ug/L**
1,1-Dichloroethane	0.575	47
1,1-Dichloroethylene (Vinylidene chloride)	19.4	25
1,2-Dichloroethane	260	100
1,2-Dichlorobenzene	16.5	0.7
trans-1,2-Dichloroethene	654	970
cis-1,2-Dichloroethylene (1,2-DCE)	---	590
1,2-Dichloropropane	333	360
1,3-Dichlorobenzene (m-Dichlorobenzene)	1315	38
1,1,1-Trichloroethane	30.2	11
1,1,2-Trichloroethane (Trichloroethane)	518	500
1,2,4 Trimethyl Benzene	---	33
1,3,5 Trimethylbenzene	---	71
1,4-Dichlorobenzene	318	9.4
1,4-Dioxane (1,4-diethyleneoxide; dioxane)	119	22,000
2-Butanone	---	14,000
2-Hexanone	58.2	99
Acetone	9.9	1500
Benzene	142	114
sec-Butylbenzene	---	---
tert-Butylbenzene	---	---
Carbon disulfide	0.85	0.92
Chlorobenzene	8.42	1.3
Chloroethane (ethyl chloride)	---	---
Chloroform	121	1.8
Dichlorodifluoromethane (Freon/R-12)	---	---
Diethyl Ether (ethyl ether)	---	---
Ethyl benzene	175	14
Freon 113	---	---
m&p-xylene	---	---
o-xylene	---	---
Total xylenes	433	13
Isopropylbenzene	86	2.6
Methyl ethyl ketone (2-Butanone)	42.4	2200
Methyl tert butyl ether	---	11070
Methylene Chloride (dichloromethane)	---	98.1
Naphthalene	176	1.1
p-Dichlorobenzene (1,4-dichlorobenzene)	318	9.4
n-Propyl Benzene	---	128
p-Isopropyl Toluene	---	---
Styrene	254	32
Tetrachloroethylene (tetrachloroethene, perchloroethylene)	468	45
Tetrahydrofuran	---	---
Toluene	1220	2
Trichloroethylene (trichloroethene)	96.9	21
Vinyl Chloride	202	930
ETPH	---	0.25 mg/L

Note: not all requested parameters currently have established ecological criteria.

--- = no established criteria

FUSS & O'NEILL

Appendix B

Phoenix Laboratories, Inc.
Bulk Chemistry Analytical Reports
2014 Data

APPENDIX F
SURFACE WATER AND SEDIMENT SAMPLE LOGS
AND LABORATORY ANALYTICAL REPORTS

SURFACE WATER SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive,
Suite 402, Glastonbury, CT 06033
Phone: (860) 286-8900

PROJECT

Project Name: Amerbelle Mils
Project Location: Rockville, CT

Date: 4/22/2015 Page 1 of 1
File No. 44541
GZA Staff/Sampler: AJT/BAG PM: CJF

GZA Staff: AJT/BAG
Weather: Sunny

Sample Method/Device
Sample Device: Perista
Grab Bomb Kemmerer Trap Bottle **Other**

Surface Water Body: Paper Mill Pond and American Mill Pond

Water Quality Meter Calibration Data — ORP: 2375 256/2375

pH Meter:	Model: YSI 556A	Reading: pH 4: 4 / 4	pH 7: 6.98 / 7.0	pH 10: 9.98 / 10	
Spec. Con.	Model: YSI 556A	Standard Solution: 1278	Reading: (start) 1248	(finish) 1278	
DO:	Model: YSI 556A	Standard Solution: ---	Reading: (start) 100.4%	(finish) 99.2%	
Turbidity:	Model: Micro TPI	Standard Solution: 0/10/100/1000	Reading: (start) ---	(finish) 0/10.1/99.8/100.2	

Sample ID	Time	Water Depth (ft.)	Sample Depth (ft.)	Turbidity (ntu)	pH (su)	S.C. (uS)	DO (mg/L)	Temp. (C)	DO (mg/L)	Temp. (C)	Sample Location
AOC-25 SW1	0925	5' 9"	1	2.73	7.73	160	12.16	8.16	0.08	155.9	America Mill Pond
AOC-25 SW2	0945	10' 8"	1	2.00	7.68	161	11.45	8.23	0.08	189.1	America Mill Pond
AOC-25 SW3	1045	9	1	1.32	7.37	160	11.75	8.35	0.08	171.3	America Mill Pond
AOC-25 SW-4	1300	6	1	0.48	7.80	163	11.55	9.77	0.08	2.7	Behind Automotive Shop
AOC-25 SW-5	1330	3	1	0.61	7.39	162	10.78	9.87	0.08	32.3	Center island 10' off
AOC-25 SW-6	1350	4	1	1.97	7.46	165	10.44	10.69	0.08	162.2	By razed buildings

SITE SKETCH

1. Samples were field filtered.
2. See map for location.

SEDIMENT SAMPLE FIELD LOG

GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, CT 06033
Phone: (860) 286-8900

PROJECT
Project Name: Amerbelle Mills
Location: Rockville, CT

Date: 4/22/2015 Page 1 of 1
File No. 45441
GZA Staff/Sampler AJT/BAG

Air Temperature (°F): 60°
Weather Conditions: Sunny

SAMPLING EQUIPMENT
Sample Method/Device:
Grab **Hand Auger** Hand Core/Borer Dredge Other

PID:
Calibration Standard: 100 Source lamp: 10.6
Instrument Reading (start): ---
Instrument Reading (finish): 99.9

Sample ID	Time	Water Depth (ft.)	Sample Depth (ft.below ground)	OVM Reading (PPM)	Odor	Moisture Content	Organic Content	Sample Description
AOC-25 SED1	0935	5' 9"	0-0.5	0	No			Brown, fine to coarse SAND and GRAVEL, fine Gravel
AOC-25 SED2	1000	10' 8"	0-0.5	0	No			Dark brown ORGANICS and fine to coarse SAND, little fine to coarse Gravel
AOC-25 SED3	1100	9'	0-0.5	0	No			Dark brown ORGANCS and fine to coarse SAND, little fine to coarse Gravel
AOC-25 SED4	1320	6'	0-0.5	0	No			Dark brown ORGANCS and fine to coarse SAND, little fine to coarse Gravel, trace Silt
AOC-25 SED5	1340	3'	0-0.5	0	No			Dark brown ORGANICS and fine to medium Sand, little fine Gravel, little Silt
AOC-25 SED6	1405	4'	0-0.5	0	No			Dark brown ORGANICS and fine to medium Sand, little fine Gravel, little Silt

SITE SKETCH:

See Map

SOIL CONDITIONS

Fines (silts & clay)	Too fine to see.	TRACE (TR.)	0-10%
Fine sand.	Finest visible particles.	LITTLE (L.)	10-20%
Med. Sand	1/64"-1/16" (granular sugar).	SOME (S.)	20-35%
C. Sand	1/6"-1/4" (rock salt).	AND	35-50%
Fine gravel	1/4"-3/4" (pea to grape).		

DENSITY

Sand	Silt/Clay
V. Loose	V. Soft
Loose	Soft
M. Dense	M. Stiff
Dense	Stiff

ABBREVIATIONS

V - Very	F - Fine
GR - Gray	M - Medium
BN - Brown	C - Coarse
YEL - Yellow	F/M - Fine to Medium
RD - Red	F/C - Fine to Coarse

ORGANIC MATERIALS

Organic Silt:	Dark gray to black, light weight, often H2S odor.
Humus:	Decomposed root/twig/leaf litter - forest areas.
Root Mat:	Living root fiber structures, found in marshes.
Peat:	Fossiliferous root mat - decomposed fiber structure.

Note: e.g. logs, branches, roots, shells, black streaks, H2S odor.

PHOENIX
Environmental Laboratories, Inc.

Tuesday, May 05, 2015

Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: AMERBELLE MILLS
Sample ID#s: BJ06358 - BJ06363

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.

A scanned version of the COC form accompanies the analytical report and is an exact duplicate of the original.

Enclosed are revised Analysis Report pages. Please replace and discard the original pages. If you have any questions concerning this testing, please do not hesitate to contact Phoenix Client Services at ext. 200.

Sincerely yours,

Phyllis Shiller

Phyllis Shiller
Laboratory Director

NELAC - #NY11301
CT Lab Registration #PH-0618
MA Lab Registration #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

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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	9:25
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06358

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.022	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	24.0	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	< 0.015	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-1

Phoenix I.D.: BJ06358

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	107		%	1	04/26/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	81		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	63		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	90		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	60		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	116		%	1	04/26/15	DD	30 - 130 %	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-1

Phoenix I.D.: BJ06358

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	107		%	1	04/24/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	81		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	63		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	90		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	60		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	116		%	1	04/24/15	DD	30 - 130 %	

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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
May 05, 2015
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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	9:45
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06359

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.023	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	24.6	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	< 0.015	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-2

Phoenix I.D.: BJ06359

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	108		%	1	04/26/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	77		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	62		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	85		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	61		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	126		%	1	04/26/15	DD	30 - 130 %	
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-2

Phoenix I.D.: BJ06359

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	108		%	1	04/24/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	77		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	62		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	85		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	61		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	126		%	1	04/24/15	DD	30 - 130 %	

B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

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

May 05, 2015

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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	10:45
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06360

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.022	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	24.1	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	< 0.015	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-3

Phoenix I.D.: BJ06360

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	106		%	1	04/26/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	78		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	67		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	88		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	65		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	133		%	1	04/26/15	DD	30 - 130 %	3
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-3

Phoenix I.D.: BJ06360

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	106		%	1	04/24/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	78		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	67		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	88		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	65		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	133		%	1	04/24/15	DD	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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. 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
May 05, 2015
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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	13:00
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06361

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.022	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	24.5	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	0.022	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-4

Phoenix I.D.: BJ06361

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	111		%	1	04/26/15	DD	15 - 110 %	3
% 2-Fluorobiphenyl	85		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	74		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	95		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	67		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	140		%	1	04/26/15	DD	30 - 130 %	3
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-4

Phoenix I.D.: BJ06361

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	111		%	1	04/24/15	DD	15 - 110 %	3
% 2-Fluorobiphenyl	85		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	74		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	95		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	67		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	140		%	1	04/24/15	DD	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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. 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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	13:30
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06362

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.023	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	25.2	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	< 0.015	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-5

Phoenix I.D.: BJ06362

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	107		%	1	04/26/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	77		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	70		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	92		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	69		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	140		%	1	04/26/15	DD	30 - 130 %	3
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-5

Phoenix I.D.: BJ06362

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	107		%	1	04/24/15	DD	15 - 110 %	
% 2-Fluorobiphenyl	77		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	70		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	92		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	69		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	140		%	1	04/24/15	DD	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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. 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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
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

May 05, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SURFACE WATER	Collected by:		04/22/15	13:50
Location Code:	GZA-AMER	Received by:	LB	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06358
Phoenix ID: BJ06363

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Arsenic	< 0.004	0.004	mg/L	1	04/23/15	LK	SW6010C
Barium	0.024	0.002	mg/L	1	04/23/15	LK	SW6010C
Cadmium	< 0.0001	0.0001	mg/L	1	04/23/15	LK	SW6010C
Chromium	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Hardness (CaCO3)	25.5	0.1	mg/L	1	04/23/15		E200.7
Mercury	< 0.0002	0.0002	mg/L	1	04/23/15	RS	SW7470A
Lead	< 0.001	0.001	mg/L	1	04/23/15	LK	SW6010C
Selenium	< 0.005	0.005	mg/L	1	04/23/15	LK	SW6010C
Ammonia as Nitrogen	< 0.05	0.05	mg/L	1	04/27/15	WHM	E350.1
Phenolics	< 0.015	0.015	mg/L	1	04/23/15	BS	E420.4
Mercury Digestion	Completed				04/23/15	I/I	SW7470A
Semi-Volatile Extraction	Completed				04/22/15	E/D/D	SW3520C
Total Metals Digestion	Completed				04/22/15	AG	SW3050B
Semivolatiles							
1,2,4-Trichlorobenzene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,2-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
1,3-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
1,4-Dichlorobenzene	ND	2.5	ug/L	1	04/26/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dichlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dimethylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D
2,4-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D
2,6-Dinitrotoluene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-6

Phoenix I.D.: BJ06363

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
2-Chloronaphthalene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Chlorophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Methylphenol (o-cresol)	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
2-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
3&4-Methylphenol (m&p-cresol)	ND	10	ug/L	1	04/26/15	DD	SW8270D	
3,3'-Dichlorobenzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
3-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chloroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitroaniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
4-Nitrophenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Acetophenone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Aniline	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzidine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Benzoic acid	ND	50	ug/L	1	04/26/15	DD	SW8270D	
Benzyl butyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Carbazole	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dibenzofuran	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Diethyl phthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Dimethylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-butylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Di-n-octylphthalate	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Isophorone	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	5.0	ug/L	1	04/26/15	DD	SW8270D	
Phenol	ND	1.0	ug/L	1	04/26/15	DD	SW8270D	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	111		%	1	04/26/15	DD	15 - 110 %	3
% 2-Fluorobiphenyl	84		%	1	04/26/15	DD	30 - 130 %	
% 2-Fluorophenol	67		%	1	04/26/15	DD	15 - 110 %	
% Nitrobenzene-d5	88		%	1	04/26/15	DD	30 - 130 %	
% Phenol-d5	66		%	1	04/26/15	DD	15 - 110 %	
% Terphenyl-d14	161		%	1	04/26/15	DD	30 - 130 %	3
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
2-Methylnaphthalene	ND	1.0	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Acenaphthylene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benz(a)anthracene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SW-6

Phoenix I.D.: BJ06363

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference	
Benzo(a)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(b)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(ghi)perylene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Benzo(k)fluoranthene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Bis(2-ethylhexyl)phthalate	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Chrysene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	B
Dibenz(a,h)anthracene	ND	0.01	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluoranthene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Fluorene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobenzene	ND	0.04	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachlorobutadiene	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Hexachloroethane	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Indeno(1,2,3-cd)pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Naphthalene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Nitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachloronitrobenzene	ND	0.10	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pentachlorophenol	ND	0.80	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Phenanthrene	ND	0.05	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyrene	ND	0.02	ug/L	1	04/24/15	DD	SW8270D (SIM)	
Pyridine	ND	0.50	ug/L	1	04/24/15	DD	SW8270D (SIM)	
QA/QC Surrogates								
% 2,4,6-Tribromophenol	111		%	1	04/24/15	DD	15 - 110 %	3
% 2-Fluorobiphenyl	84		%	1	04/24/15	DD	30 - 130 %	
% 2-Fluorophenol	67		%	1	04/24/15	DD	15 - 110 %	
% Nitrobenzene-d5	88		%	1	04/24/15	DD	30 - 130 %	
% Phenol-d5	66		%	1	04/24/15	DD	15 - 110 %	
% Terphenyl-d14	161		%	1	04/24/15	DD	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:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
One of the surrogate recoveries was above the upper range due to sample matrix interference. 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.
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Phyllis Shiller, Laboratory Director
May 05, 2015
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

May 05, 2015

QA/QC Data

SDG I.D.: GBJ06358

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305566 (mg/L), QC Sample No: BJ06266 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)													
Mercury - Water	BRL	0.0002	<0.0002	<0.0002	NC	114	112	1.8	108	104	3.8	70 - 130	20
Comment:													
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.													
QA/QC Batch 305531 (mg/L), QC Sample No: BJ06296 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)													
ICP Metals - Aqueous													
Arsenic	BRL	0.004	<0.004	<0.004	NC	99.9	98.5	1.4	100	99.5	0.5	75 - 125	20
Barium	BRL	0.002	0.863	0.889	3.00	103	101	2.0	112	110	1.8	75 - 125	20
Cadmium	BRL	0.001	<0.001	<0.001	NC	98.1	96.8	1.3	94.1	93.1	1.1	75 - 125	20
Chromium	BRL	0.001	<0.001	<0.001	NC	99.0	97.7	1.3	96.9	96.3	0.6	75 - 125	20
Lead	BRL	0.002	<0.002	<0.002	NC	99.3	97.9	1.4	96.5	95.8	0.7	75 - 125	20
Selenium	BRL	0.010	<0.010	<0.010	NC	98.3	97.5	0.8	98.5	96.9	1.6	75 - 125	20
Silver	BRL	0.001	<0.001	<0.001	NC	99.9	97.9	2.0	102	100	2.0	75 - 125	20

PHOENIX

Environmental Laboratories, Inc.
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QA/QC Report

May 05, 2015

QA/QC Data

SDG I.D.: GBJ06358

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305778 (mg/L), QC Sample No: BJ06293 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)													
Ammonia as Nitrogen	BRL	0.05	<0.05	<0.05	NC	98.3			97.5			85 - 115	20
QA/QC Batch 305571 (mg/L), QC Sample No: BJ06358 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)													
Phenolics	BRL	0.015	<0.015	<0.015	NC	111			96.5			85 - 115	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

May 05, 2015

QA/QC Data

SDG I.D.: GBJ06358

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305513 (ug/L), QC Sample No: BJ06305 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)										
Semivolatiles - Surface Water										
1,2,4,5-Tetrachlorobenzene	ND	0.50	86	88	2.3				30 - 130	20
1,2,4-Trichlorobenzene	ND	3.5	74	75	1.3				30 - 130	20
1,2-Dichlorobenzene	ND	1.0	59	60	1.7				30 - 130	20
1,2-Diphenylhydrazine	ND	1.6	104	104	0.0				30 - 130	20
1,3-Dichlorobenzene	ND	1.0	56	55	1.8				30 - 130	20
1,4-Dichlorobenzene	ND	1.0	57	57	0.0				30 - 130	20
2,4,5-Trichlorophenol	ND	1.0	106	106	0.0				30 - 130	20
2,4,6-Trichlorophenol	ND	1.0	103	103	0.0				30 - 130	20
2,4-Dichlorophenol	ND	1.0	88	89	1.1				30 - 130	20
2,4-Dimethylphenol	ND	1.0	86	88	2.3				30 - 130	20
2,4-Dinitrophenol	ND	1.0	121	119	1.7				30 - 130	20
2,4-Dinitrotoluene	ND	3.5	114	114	0.0				30 - 130	20
2,6-Dinitrotoluene	ND	3.5	108	107	0.9				30 - 130	20
2-Chloronaphthalene	ND	3.5	89	89	0.0				30 - 130	20
2-Chlorophenol	ND	1.0	67	67	0.0				30 - 130	20
2-Methylnaphthalene	ND	0.05	89	90	1.1				30 - 130	20
2-Methylphenol (o-cresol)	ND	1.0	78	78	0.0				30 - 130	20
2-Nitroaniline	ND	3.5	127	128	0.8				30 - 130	20
2-Nitrophenol	ND	1.0	84	83	1.2				30 - 130	20
3&4-Methylphenol (m&p-cresol)	ND	1.0	89	90	1.1				30 - 130	20
3,3'-Dichlorobenzidine	ND	5.0	80	75	6.5				30 - 130	20
3-Nitroaniline	ND	5.0	104	102	1.9				30 - 130	20
4,6-Dinitro-2-methylphenol	ND	1.0	120	121	0.8				30 - 130	20
4-Bromophenyl phenyl ether	ND	3.5	100	100	0.0				30 - 130	20
4-Chloro-3-methylphenol	ND	1.0	106	109	2.8				30 - 130	20
4-Chloroaniline	ND	3.5	62	69	10.7				30 - 130	20
4-Chlorophenyl phenyl ether	ND	1.0	101	102	1.0				30 - 130	20
4-Nitroaniline	ND	5.0	119	119	0.0				30 - 130	20
4-Nitrophenol	ND	1.0	113	112	0.9				30 - 130	20
Acenaphthene	ND	0.05	91	92	1.1				30 - 130	20
Acenaphthylene	ND	0.02	92	93	1.1				30 - 130	20
Acetophenone	ND	5.0	86	86	0.0				30 - 130	20
Aniline	ND	3.5	69	67	2.9				30 - 130	20
Anthracene	ND	0.02	101	101	0.0				30 - 130	20
Benz(a)anthracene	0.03	0.02	111	110	0.9				30 - 130	20
Benzidine	ND	4.5	72	58	21.5				30 - 130	20
Benzo(a)pyrene	ND	0.02	100	99	1.0				30 - 130	20
Benzo(b)fluoranthene	ND	0.02	111	112	0.9				30 - 130	20
Benzo(ghi)perylene	ND	0.02	87	86	1.2				30 - 130	20
Benzo(k)fluoranthene	ND	0.02	108	111	2.7				30 - 130	20
Benzoic acid	ND	10	94	97	3.1				30 - 130	20

QA/QC Data

SDG I.D.: GBJ06358

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
Benzyl butyl phthalate	ND	3.5	114	115	0.9				30 - 130	20
Bis(2-chloroethoxy)methane	ND	3.5	91	91	0.0				30 - 130	20
Bis(2-chloroethyl)ether	ND	1.0	63	64	1.6				30 - 130	20
Bis(2-chloroisopropyl)ether	ND	1.0	71	70	1.4				30 - 130	20
Bis(2-ethylhexyl)phthalate	ND	0.05	114	113	0.9				30 - 130	20
Carbazole	ND	5.0	102	104	1.9				30 - 130	20
Chrysene	0.02	0.02	106	106	0.0				30 - 130	20
Dibenz(a,h)anthracene	ND	0.01	93	92	1.1				30 - 130	20
Dibenzofuran	ND	3.5	100	101	1.0				30 - 130	20
Diethyl phthalate	ND	3.5	107	107	0.0				30 - 130	20
Dimethylphthalate	ND	3.5	103	104	1.0				30 - 130	20
Di-n-butylphthalate	ND	3.5	108	109	0.9				30 - 130	20
Di-n-octylphthalate	ND	3.5	109	108	0.9				30 - 130	20
Fluoranthene	ND	0.04	109	110	0.9				30 - 130	20
Fluorene	ND	0.05	104	104	0.0				30 - 130	20
Hexachlorobenzene	ND	0.02	95	96	1.0				30 - 130	20
Hexachlorobutadiene	ND	0.05	72	73	1.4				30 - 130	20
Hexachlorocyclopentadiene	ND	3.5	52	52	0.0				30 - 130	20
Hexachloroethane	ND	0.05	57	57	0.0				30 - 130	20
Indeno(1,2,3-cd)pyrene	ND	0.02	88	88	0.0				30 - 130	20
Isophorone	ND	3.5	91	91	0.0				30 - 130	20
Naphthalene	ND	0.05	81	82	1.2				30 - 130	20
Nitrobenzene	ND	0.05	78	78	0.0				30 - 130	20
N-Nitrosodimethylamine	ND	0.05	57	57	0.0				30 - 130	20
N-Nitrosodi-n-propylamine	ND	3.5	92	90	2.2				30 - 130	20
N-Nitrosodiphenylamine	ND	3.5	95	95	0.0				30 - 130	20
Pentachloronitrobenzene	ND	0.10	107	106	0.9				30 - 130	20
Pentachlorophenol	ND	0.30	104	104	0.0				30 - 130	20
Phenanthrene	ND	0.05	103	103	0.0				30 - 130	20
Phenol	ND	1.0	71	72	1.4				30 - 130	20
Pyrene	ND	0.02	110	111	0.9				30 - 130	20
Pyridine	ND	0.50	46	46	0.0				30 - 130	20
% 2,4,6-Tribromophenol	73	%	104	103	1.0				30 - 130	20
% 2-Fluorobiphenyl	62	%	83	82	1.2				30 - 130	20
% 2-Fluorophenol	45	%	54	54	0.0				30 - 130	20
% Nitrobenzene-d5	66	%	74	74	0.0				30 - 130	20
% Phenol-d5	51	%	66	67	1.5				30 - 130	20
% Terphenyl-d14	86	%	115	117	1.7				30 - 130	20

Comment:

Additional 8270 criteria: 20% of compounds can be outside of acceptance criteria as long as recovery is at least 10%. (Acid surrogates acceptance range for aqueous samples: 15-110%, for soils 30-130%)

r = This parameter is outside laboratory rpd specified recovery limits.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.

RPD - Relative Percent Difference
LCS - Laboratory Control Sample
LCSD - Laboratory Control Sample Duplicate
MS - Matrix Spike
MS Dup - Matrix Spike Duplicate
NC - No Criteria
Intf - Interference

Phyllis Shiller, Laboratory Director
May 05, 2015

Sample Criteria Exceedences Report

GBJ06358 - GZA-AMER

Criteria: CT: AQ, GAM, GWP, SWP

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA GeoEnvironmental, Inc.

Project Location: AMERBELLE MILLS **Project Number:**

Laboratory Sample ID(s): BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363

Sampling Date(s): 4/22/2015

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: SVOA 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Maryam Taylor

Date: Tuesday, May 05, 2015

Printed Name: Maryam Taylor

Position: Project Manager

PHOENIX

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587 East Middle Turnpike, P.O.Box 370, Manchester, CT 06045
Tel. (860) 645-1102 Fax (860) 645-0823

ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

RCP Certification Report

May 05, 2015

SDG I.D.: GBJ06358

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list.

8270 Semi-volatile Organics:
In order to achieve the requested reporting levels for the target compounds, the sample was extracted and analyzed via 8270 selective ion monitoring (SIM) as well as 8270 full scan.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 04/23/15-1 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)

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: 4/23/2015

QC (Batch Specific)

---------- Sample No: BJ06266, QA/QC Batch: 305566 ----------

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: Blue 04/23/15-1 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)

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.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 05, 2015

SDG I.D.: GBJ06358

Printed Name Laura Kinnin
Position: Chemist
Date: 4/23/2015

QC (Batch Specific)

---------- Sample No: BJ06296, QA/QC Batch: 305531 ----------

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.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 305513 (Samples: BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363): ——

A trace amount of an analyte was found in blank but were not reported in the sample(s), therefore no bias is suspected. (Benz(a)anthracene, Chrysene)

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. (Benzidine)

Instrument: Chem06 04/26/15-1 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)

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/SV_0426):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (23%), 4,6-Dinitro-2-methylphenol (21%), Pentachlorophenol (25%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM06/0426_11A-SV_0426):
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 (.071)[0.1], Hexachlorobenzene (.074)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/26/2015

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NY # 11301

RCP Certification Report

May 05, 2015

SDG I.D.: GBJ06358

QC (Batch Specific)

---------- Sample No: BJ06305, QA/QC Batch: 305513 ----------

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: Benzidine(21.5%)

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Chem04 04/24/15-1 (BJ06358, BJ06359, BJ06360, BJ06361, BJ06362, BJ06363)

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 Verification (CHEM04/SIM_0406):
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 (CHEM04/0424_03-SIM_0406):
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-chlorophenol (.658)[0.8], 2-nitrophenol (.065)[0.1], Bis(2-chloroethyl)ether (.584)[0.7]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/24/2015

QC (Batch Specific)

---------- Sample No: BJ06305, QA/QC Batch: 305513 ----------

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.

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NY # 11301

RCP Certification Report

May 05, 2015

SDG I.D.: GBJ06358

Temperature Narration

The samples were received at 4C with cooling initiated.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX
Environmental Laboratories, Inc.

CHAIN OF CUSTODY RECORD

4°w/ice Temp Pg 1 of 1

587 East Middle Turnpike, P.O. Box 370, Manchester, CT 06040
Email: service@phoenixlabs.com Fax (860) 645-0823
Client Services (860) 645-8726

Data Delivery:
☐ Fax #: _____
☒ Email: christopher.frey@gza.com

Customer: GZA
Address: 655 WINDSOR BROOK DRIVE, SUITE 402 GLASTONBURY, CT

Project: AMERBELLE MILLS
Report to: CHRIS FREY
Invoice to: √

Project P.O: 45441.
Phone #: 860-858-3103
Fax #:

Client Sample - Information - Identification

Sampler's Signature _____ Date 4/22/15

Matrix Code:
DW=drinking water **WW**=wastewater **S**=soil/solid **O**=other
GW=groundwater **SL**=sludge **A**=air

Analysis Request

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	RCRA 8 METALS	SVOC	ANELINE	AMMONIA	PHENOL	HARDNESS	GL AMBER H2SO4	Soil VOA [ ] Methanol [ ] S. Bisulfate [ ] 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 [ ] 1000ml	PL HNO3 250ml	PL NaOH 250ml	Bacteria Bottle
063581	AOC-25 SW-1	O	4/22/15	0925	X	X	X	X	X	X					1		1	2			
063582	AOC-25 SW-2	O		0945											1		1	2			
063583	AOC-25 SW-3	O		1045											1		1	2			
063584	AOC-25 SW-4	O		1300											1		1	2			
063585	AOC-25 SW-5	O		1330											1		1	2			
063586	AOC-25 SW-6	O	↓	1350	↓	↓	↓	↓	↓	↓					1		1	2			

Relinquished by:	Accepted by:	Date:	Time:
Ben Graham	Carradice	4/22/15	1602

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
☒ Standard
☐ Other

* SURCHARGE APPLIES

CT/RI
☒ RCP Cert.
☐ GW Protect.
☒ GA Mobility
☐ GB Mobility
☐ SW Protect.
☐ Res. Vol.
☐ Ind. Vol.
☐ Res. Criteria
☒ Other
CT WATER QUAL. CRITERIA

MA
☐ MCP Cert.
☐ 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
☐ ASP-A
☐ NJ Reduced Deliv. *
☐ NJ Hazsite EDD
☒ Phoenix Std Report
☐ Other

State where samples were collected: CT

Comments, Special Requirements or Regulations:
0 = SURFACE WATER

PHOENIX
Environmental Laboratories, Inc.

Friday, May 08, 2015

Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Project ID: AMERBELLE MILLS
Sample ID#s: BJ06364 - BJ06369

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

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

PHOENIX

Environmental Laboratories, Inc.
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Tel. (860) 645-1102 Fax (860) 645-0823

Analysis Report

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	9:35
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06364

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	1.7	0.8	mg/Kg	1	04/23/15	LK	SW6010C
Barium	46.2	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	1.14	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	24.4	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	0.26	0.03	mg/Kg	1	04/23/15	RS	SW7471B
Lead	67.4	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	83		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 4.7	4.7	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 0.90	0.90	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	18000	100	mg/kg	1	04/23/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Sieve Test	Completed				04/30/15	*	ASTM
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylnaphthalene	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthene	14	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthylene	10	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Anthracene	21	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Benz(a)anthracene	46	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(a)pyrene	62	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(b)fluoranthene	88	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(ghi)perylene	60	1.6	ug/Kg	1	04/23/15	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(k)fluoranthene	33	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	39	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Chrysene	58	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	12	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Fluoranthene	150	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Fluorene	13	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	3.4	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobutadiene	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Hexachloroethane	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	47	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Naphthalene	37	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Pentachlorophenol	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Phenanthrene	65	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Phenol	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
Pyrene	130	1.6	ug/Kg	1	04/23/15	DD	SW8270D
Pyridine	ND	7.9	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	92		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	65		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	63		%	1	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	72		%	1	04/23/15	DD	30 - 130 %
% Phenol-d5	68		%	1	04/23/15	DD	30 - 130 %
% Terphenyl-d14	98		%	1	04/23/15	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dimethylphenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2-Chlorophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2-Nitroaniline	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
2-Nitrophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
3-Nitroaniline	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4-Chloroaniline	ND	400	ug/Kg	1	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-1

Phoenix I.D.: BJ06364

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Chlorophenyl phenyl ether	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4-Nitroaniline	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
4-Nitrophenol	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Acetophenone	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Aniline	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Benzidine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Benzoic acid	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Benzyl butyl phthalate	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Carbazole	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Dibenzofuran	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Diethyl phthalate	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Dimethylphthalate	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Isophorone	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
Nitrobenzene	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	400	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	71		%	1	04/23/15	DD	SW8270D
% 2-Fluorobiphenyl	59		%	1	04/23/15	DD	SW8270D
% 2-Fluorophenol	51		%	1	04/23/15	DD	SW8270D
% Nitrobenzene-d5	64		%	1	04/23/15	DD	SW8270D
% Phenol-d5	55		%	1	04/23/15	DD	SW8270D
% Terphenyl-d14	54		%	1	04/23/15	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

* See Attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director

May 08, 2015

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

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	10:00
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06365

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-2

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.59	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	2.8	1.2	mg/Kg	1	04/23/15	LK	SW6010C
Barium	303	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	3.41	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	38.8	0.59	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	12.6	0.48	mg/Kg	1	04/23/15	RS	SW7471B
Lead	1200	5.9	mg/Kg	10	04/24/15	EK	SW6010C
Selenium	< 2.4	2.4	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	51		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 20	20	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 1.5	1.5	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	48000	100	mg/kg	1	04/23/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	13	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylnaphthalene	77	13	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthene	640	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthylene	110	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Anthracene	1100	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	650	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Fluorene	480	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	2.6	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobutadiene	ND	13	ug/Kg	1	04/23/15	DD	SW8270D
Hexachloroethane	ND	13	ug/Kg	1	04/23/15	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Naphthalene	90	13	ug/Kg	1	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	13	ug/Kg	1	04/23/15	DD	SW8270D
Pentachlorophenol	ND	26	ug/Kg	1	04/23/15	DD	SW8270D
Phenol	ND	13	ug/Kg	1	04/23/15	DD	SW8270D
Pyridine	ND	13	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	87		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	54		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	69		%	1	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	70		%	1	04/23/15	DD	30 - 130 %
% Phenol-d5	70		%	1	04/23/15	DD	30 - 130 %
% Terphenyl-d14	48		%	1	04/23/15	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dimethylphenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2-Chlorophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitroaniline	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitrophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
3-Nitroaniline	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloroaniline	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitroaniline	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitrophenol	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Acetophenone	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Aniline	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benz(a)anthracene	4500	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzidine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzo(a)pyrene	4100	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzo(b)fluoranthene	6400	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzo(ghi)perylene	1600	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzo(k)fluoranthene	2200	1300	ug/Kg	2	04/23/15	DD	SW8270D
Benzoic acid	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-2

Phoenix I.D.: BJ06365

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzyl butyl phthalate	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	2300	1300	ug/Kg	2	04/23/15	DD	SW8270D
Carbazole	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Chrysene	4800	1300	ug/Kg	2	04/23/15	DD	SW8270D
Dibenzofuran	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Diethyl phthalate	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Dimethylphthalate	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Fluoranthene	10000	1300	ug/Kg	2	04/23/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1500	1300	ug/Kg	2	04/23/15	DD	SW8270D
Isophorone	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Nitrobenzene	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	1300	ug/Kg	2	04/23/15	DD	SW8270D
Phenanthrene	7800	1300	ug/Kg	2	04/23/15	DD	SW8270D
Pyrene	7500	1300	ug/Kg	2	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	75		%	2	04/23/15	DD	SW8270D
% 2-Fluorobiphenyl	58		%	2	04/23/15	DD	SW8270D
% 2-Fluorophenol	55		%	2	04/23/15	DD	SW8270D
% Nitrobenzene-d5	66		%	2	04/23/15	DD	SW8270D
% Phenol-d5	59		%	2	04/23/15	DD	SW8270D
% Terphenyl-d14	37		%	2	04/23/15	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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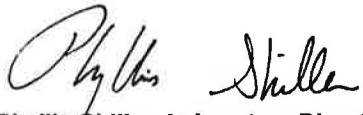

Phyllis Shiller, Laboratory Director
May 08, 2015
Reviewed and Released by: Phyllis Shiller, Laboratory Director

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

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	11:00
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06366

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-3

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.68	0.68	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	2.4	1.4	mg/Kg	1	04/23/15	LK	SW6010C
Barium	83.3	0.68	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	0.93	0.68	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	45.7	0.68	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	0.16	0.05	mg/Kg	1	04/23/15	RS	SW7471B
Lead	294	6.8	mg/Kg	10	04/24/15	EK	SW6010C
Selenium	< 2.7	2.7	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	52		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 35	35	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 1.4	1.4	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	68000	100	mg/kg	1	04/23/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylnaphthalene	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthene	67	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthylene	62	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Anthracene	200	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Benz(a)anthracene	650	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(a)pyrene	750	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(b)fluoranthene	1000	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(ghi)perylene	530	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(k)fluoranthene	380	2.5	ug/Kg	1	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-3

Phoenix I.D.: BJ06366

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	280	12	ug/Kg	1	04/23/15	DD	SW8270D
Chrysene	740	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	130	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Fluorene	62	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobutadiene	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Hexachloroethane	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	460	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Naphthalene	22	12	ug/Kg	1	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Pentachlorophenol	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Phenanthrene	820	2.5	ug/Kg	1	04/23/15	DD	SW8270D
Phenol	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
Pyridine	ND	12	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	93		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	46		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	57		%	1	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	67		%	1	04/23/15	DD	30 - 130 %
% Phenol-d5	65		%	1	04/23/15	DD	30 - 130 %
% Terphenyl-d14	51		%	1	04/23/15	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dimethylphenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2-Chlorophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitroaniline	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitrophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
3-Nitroaniline	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloroaniline	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitroaniline	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitrophenol	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-3

Phoenix I.D.: BJ06366

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Acetophenone	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Aniline	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Benzidine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Benzoic acid	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Benzyl butyl phthalate	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Carbazole	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Dibenzofuran	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Diethyl phthalate	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Dimethylphthalate	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Fluoranthene	1300	1200	ug/Kg	2	04/23/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Isophorone	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Nitrobenzene	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	1200	ug/Kg	2	04/23/15	DD	SW8270D
Pyrene	1100	1000	ug/Kg	2	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	82		%	2	04/23/15	DD	SW8270D
% 2-Fluorobiphenyl	44		%	2	04/23/15	DD	SW8270D
% 2-Fluorophenol	43		%	2	04/23/15	DD	SW8270D
% Nitrobenzene-d5	59		%	2	04/23/15	DD	SW8270D
% Phenol-d5	50		%	2	04/23/15	DD	SW8270D
% Terphenyl-d14	36		%	2	04/23/15	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 08, 2015
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

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	13:20
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06367

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-4

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.42	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	1.0	0.8	mg/Kg	1	04/23/15	LK	SW6010C
Barium	47.5	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	< 0.42	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	8.49	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	< 0.04	0.04	mg/Kg	1	04/23/15	RS	SW7471B
Lead	95.4	0.42	mg/Kg	1	04/23/15	LK	SW6010C
Selenium	< 1.7	1.7	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	72		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 17	17	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 1.0	1.0	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	30000	100	mg/kg	1	04/27/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Sieve Test	Completed				04/30/15	*	ASTM
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-4

Phoenix I.D.: BJ06367

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
2,4-Dimethylphenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	7400	ug/Kg	10	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2-Chlorophenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2-Methylnaphthalene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
2-Nitroaniline	ND	7400	ug/Kg	10	04/23/15	DD	SW8270D
2-Nitrophenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
3-Nitroaniline	ND	7400	ug/Kg	10	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	13000	ug/Kg	10	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
4-Chloroaniline	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
4-Nitroaniline	ND	7400	ug/Kg	10	04/23/15	DD	SW8270D
4-Nitrophenol	ND	13000	ug/Kg	10	04/23/15	DD	SW8270D
Acenaphthene	3200	3000	ug/Kg	10	04/23/15	DD	SW8270D
Acenaphthylene	4800	3200	ug/Kg	10	04/23/15	DD	SW8270D
Acetophenone	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Aniline	ND	13000	ug/Kg	10	04/23/15	DD	SW8270D
Anthracene	9300	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benz(a)anthracene	21000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benzidine	ND	5500	ug/Kg	10	04/23/15	DD	SW8270D
Benzo(a)pyrene	19000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benzo(b)fluoranthene	25000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benzo(ghi)perylene	5700	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benzo(k)fluoranthene	8500	3200	ug/Kg	10	04/23/15	DD	SW8270D
Benzoic acid	ND	13000	ug/Kg	10	04/23/15	DD	SW8270D
Benzyl butyl phthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Carbazole	ND	6900	ug/Kg	10	04/23/15	DD	SW8270D
Chrysene	18000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Dibenzofuran	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Diethyl phthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Dimethylphthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Fluoranthene	43000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Fluorene	5000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Hexachlorobutadiene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-4

Phoenix I.D.: BJ06367

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorocyclopentadiene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Hexachloroethane	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	5400	3200	ug/Kg	10	04/23/15	DD	SW8270D
Isophorone	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Naphthalene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Nitrobenzene	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
Pentachlorophenol	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
Phenanthrene	28000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Phenol	ND	3200	ug/Kg	10	04/23/15	DD	SW8270D
Pyrene	37000	3200	ug/Kg	10	04/23/15	DD	SW8270D
Pyridine	ND	4600	ug/Kg	10	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	Diluted Out		%	10	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	Diluted Out		%	10	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	Diluted Out		%	10	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	Diluted Out		%	10	04/23/15	DD	30 - 130 %
% Phenol-d5	Diluted Out		%	10	04/23/15	DD	30 - 130 %
% Terphenyl-d14	Diluted Out		%	10	04/23/15	DD	30 - 130 %

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

* See Attached

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

Semi-Volatile Comment:
Due to a matrix interference and/or the presence of a large amount of non-target material in the sample, a dilution was required resulting in an elevated RL for the semivolatile analysis.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 08, 2015
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

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	13:40
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06368

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-5

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.52	0.52	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	3.4	1.0	mg/Kg	1	04/23/15	LK	SW6010C
Barium	62.8	0.52	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	< 0.52	0.52	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	19.7	0.52	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	0.13	0.04	mg/Kg	1	04/23/15	RS	SW7471B
Lead	61.0	0.52	mg/Kg	1	04/23/15	LK	SW6010C
Selenium	< 2.1	2.1	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	58		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 40	40	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 1.3	1.3	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	52000	100	mg/kg	1	04/27/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylnaphthalene	18	11	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthene	23	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthylene	80	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Anthracene	91	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Benz(a)anthracene	260	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(a)pyrene	370	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(b)fluoranthene	540	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(ghi)perylene	200	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(k)fluoranthene	200	2.3	ug/Kg	1	04/23/15	DD	SW8270D

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Bis(2-ethylhexyl)phthalate	21	11	ug/Kg	1	04/23/15	DD	SW8270D
Chrysene	340	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	49	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Fluoranthene	750	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Fluorene	41	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobutadiene	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
Hexachloroethane	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	180	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Naphthalene	42	11	ug/Kg	1	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
Pentachlorophenol	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
Phenanthrene	380	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Phenol	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
Pyrene	770	2.3	ug/Kg	1	04/23/15	DD	SW8270D
Pyridine	ND	11	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	47		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	68		%	1	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	62		%	1	04/23/15	DD	30 - 130 %
% Phenol-d5	74		%	1	04/23/15	DD	30 - 130 %
% Terphenyl-d14	96		%	1	04/23/15	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dimethylphenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2-Chlorophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2-Nitroaniline	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
2-Nitrophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
3-Nitroaniline	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4-Chloroaniline	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	570	ug/Kg	1	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-5

Phoenix I.D.: BJ06368

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
4-Nitroaniline	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
4-Nitrophenol	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Acetophenone	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Aniline	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Benzidine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Benzoic acid	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Benzyl butyl phthalate	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Carbazole	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Dibenzofuran	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Diethyl phthalate	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Dimethylphthalate	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Isophorone	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
Nitrobenzene	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	570	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	64		%	1	04/23/15	DD	SW8270D
% 2-Fluorobiphenyl	40		%	1	04/23/15	DD	SW8270D
% 2-Fluorophenol	52		%	1	04/23/15	DD	SW8270D
% Nitrobenzene-d5	55		%	1	04/23/15	DD	SW8270D
% Phenol-d5	57		%	1	04/23/15	DD	SW8270D
% Terphenyl-d14	53		%	1	04/23/15	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 08, 2015
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

May 08, 2015

FOR: Attn: Mr Chris Frey
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive
Suite 402
Glastonbury, CT 06033

Sample Information		Custody Information		Date	Time
Matrix:	SEDIMENT	Collected by:		04/22/15	14:05
Location Code:	GZA-AMER	Received by:	SW	04/22/15	16:02
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:	45441				

Laboratory Data

SDG ID: GBJ06364
Phoenix ID: BJ06369

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-6

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Silver	< 0.99	0.99	mg/Kg	1	04/23/15	LK	SW6010C
Arsenic	5.6	2.0	mg/Kg	1	04/23/15	LK	SW6010C
Barium	72.5	0.99	mg/Kg	1	04/23/15	LK	SW6010C
Cadmium	< 0.99	0.99	mg/Kg	1	04/23/15	LK	SW6010C
Chromium	24.5	0.99	mg/Kg	1	04/23/15	LK	SW6010C
Mercury	0.26	0.07	mg/Kg	1	04/23/15	RS	SW7471B
Lead	171	0.99	mg/Kg	1	04/23/15	LK	SW6010C
Selenium	< 4.0	4.0	mg/Kg	1	04/23/15	LK	SW6010C
Percent Solid	35		%		04/22/15	I	SW846-%Solid
Ammonia as Nitrogen	< 39	39	mg/Kg	1	04/27/15	WHM	E350.1
Phenolics	< 2.1	2.1	mg/Kg	1	04/23/15	BS	SW9066
Tot.Org.Carbon	140000	100	mg/kg	1	04/27/15	MA	SW9060A/L. Kahn
Extraction for SVOA SIM	Completed				04/22/15	BJ/VH	SW3545A
Mercury Digestion	Completed				04/23/15	I/I	SW7471B
Total Metals Digest	Completed				04/22/15	CB/AG	SW3050B
Tot.Org.Carbon Preparation	Completed				04/22/15	MA	
Semivolatiles							
1,2,4,5-Tetrachlorobenzene	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
2-Methylnaphthalene	230	19	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthene	990	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Acenaphthylene	500	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(ghi)perylene	1900	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Benzo(k)fluoranthene	1500	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Bis(2-ethylhexyl)phthalate	130	19	ug/Kg	1	04/23/15	DD	SW8270D
Dibenz(a,h)anthracene	530	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Fluorene	1500	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Hexachlorobenzene	ND	3.8	ug/Kg	1	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-6

Phoenix I.D.: BJ06369

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Hexachlorobutadiene	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
Hexachloroethane	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
Indeno(1,2,3-cd)pyrene	1800	3.8	ug/Kg	1	04/23/15	DD	SW8270D
Naphthalene	420	19	ug/Kg	1	04/23/15	DD	SW8270D
Pentachloronitrobenzene	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
Pentachlorophenol	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
Phenol	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
Pyridine	ND	19	ug/Kg	1	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	83		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorobiphenyl	40		%	1	04/23/15	DD	30 - 130 %
% 2-Fluorophenol	66		%	1	04/23/15	DD	30 - 130 %
% Nitrobenzene-d5	71		%	1	04/23/15	DD	30 - 130 %
% Phenol-d5	70		%	1	04/23/15	DD	30 - 130 %
% Terphenyl-d14	53		%	1	04/23/15	DD	30 - 130 %
Semivolatiles Full Scan							
1,2,4-Trichlorobenzene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Dichlorobenzene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
1,3-Dichlorobenzene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
1,4-Dichlorobenzene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dichlorophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dimethylphenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,4-Dinitrotoluene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2,6-Dinitrotoluene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2-Chloronaphthalene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2-Chlorophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitroaniline	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
2-Nitrophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
3-Nitroaniline	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4,6-Dinitro-2-methylphenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Bromophenyl phenyl ether	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloro-3-methylphenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Chloroaniline	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Chlorophenyl phenyl ether	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitroaniline	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
4-Nitrophenol	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Acetophenone	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Aniline	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Anthracene	2300	1900	ug/Kg	2	04/23/15	DD	SW8270D
Benz(a)anthracene	4600	1900	ug/Kg	2	04/23/15	DD	SW8270D
Benzidine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Benzo(a)pyrene	4000	1900	ug/Kg	2	04/23/15	DD	SW8270D

Project ID: AMERBELLE MILLS
Client ID: AOC-25 SED-6

Phoenix I.D.: BJ06369

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Benzo(b)fluoranthene	5500	1900	ug/Kg	2	04/23/15	DD	SW8270D
Benzoic acid	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Benzyl butyl phthalate	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethoxy)methane	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroethyl)ether	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Bis(2-chloroisopropyl)ether	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Carbazole	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Chrysene	4200	1900	ug/Kg	2	04/23/15	DD	SW8270D
Dibenzofuran	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Diethyl phthalate	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Dimethylphthalate	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-butylphthalate	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Di-n-octylphthalate	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Fluoranthene	9200	1900	ug/Kg	2	04/23/15	DD	SW8270D
Hexachlorocyclopentadiene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Isophorone	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Nitrobenzene	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodimethylamine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodi-n-propylamine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
N-Nitrosodiphenylamine	ND	1900	ug/Kg	2	04/23/15	DD	SW8270D
Phenanthrene	9100	1900	ug/Kg	2	04/23/15	DD	SW8270D
Pyrene	7100	1900	ug/Kg	2	04/23/15	DD	SW8270D
QA/QC Surrogates							
% 2,4,6-Tribromophenol	77		%	2	04/23/15	DD	SW8270D
% 2-Fluorobiphenyl	39		%	2	04/23/15	DD	SW8270D
% 2-Fluorophenol	52		%	2	04/23/15	DD	SW8270D
% Nitrobenzene-d5	64		%	2	04/23/15	DD	SW8270D
% Phenol-d5	58		%	2	04/23/15	DD	SW8270D
% Terphenyl-d14	43		%	2	04/23/15	DD	SW8270D

RL/PQL=Reporting/Practical Quantitation Level ND=Not Detected BRL=Below Reporting Level

Comments:

Per 1.4.6 of EPA method 8270D, 1,2-Diphenylhydrazine is unstable and readily converts to Azobenzene. Azobenzene is used for the calibration of 1,2-Diphenylhydrazine.

All soils, solids and sludges are reported on a dry weight basis unless otherwise noted in the sample comments.

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
May 08, 2015
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

May 08, 2015

QA/QC Data

SDG I.D.: GBJ06364

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 305496 (mg/kg), QC Sample No: BJ06183 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)													
ICP Metals - Soil													
Arsenic	BRL	0.69	12.3	15.0	19.8	96.4	95.8	0.6	94.0	94.8	0.8	75 - 125	30
Barium	BRL	0.35	51.3	51.1	0.40	94.1	98.0	4.1	96.5	93.0	3.7	75 - 125	30
Cadmium	BRL	0.35	0.42	<0.36	NC	94.7	104	9.4	90.2	91.6	1.5	75 - 125	30
Chromium	BRL	0.35	21.9	17.2	24.0	94.5	97.8	3.4	92.1	103	11.2	75 - 125	30
Lead	BRL	0.35	94.5	427	128	95.5	98.3	2.9	84.0	81.3	3.3	75 - 125	30
Selenium	BRL	1.4	<1.6	<1.4	NC	92.0	96.8	5.1	83.6	84.4	1.0	75 - 125	30
Silver	BRL	0.35	<0.41	<0.36	NC	97.4	99.0	1.6	98.6	100	1.4	75 - 125	30
QA/QC Batch 305565 (mg/kg), QC Sample No: BJ06628 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)													
Mercury - Soil	BRL	0.06	<0.03	<0.03	NC	124	112	10.2	115	120	4.3	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.

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

May 08, 2015

QA/QC Data

SDG I.D.: GBJ06364

Parameter	Blank	Blk RL	Sample Result	Dup Result	Dup RPD	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 305687 (mg/kg), QC Sample No: BJ06250 (BJ06364, BJ06365, BJ06366)														
Tot.Org.Carbon	BRL	100	38000	34000	NC	117						85 - 115	30	I
QA/QC Batch 305778 (mg/L), QC Sample No: BJ06293 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)														
Ammonia as Nitrogen	BRL	0.05	<0.05	<0.05	NC	98.3			97.5			85 - 115	20	
QA/QC Batch 305573 (mg/Kg), QC Sample No: BJ06366 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)														
Phenolics	BRL	0.015	<1.4	<1.4	NC	110			90.5			85 - 115	30	
QA/QC Batch 305965 (mg/kg), QC Sample No: BJ06367 (BJ06367, BJ06368, BJ06369)														
Tot.Org.Carbon	BRL	100	30000	35000	NC	114						85 - 115	30	

I = This parameter is outside laboratory lcs/lcsd 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

May 08, 2015

QA/QC Data

SDG I.D.: GBJ06364

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
QA/QC Batch 305519 (ug/kg), QC Sample No: BJ06364 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)											
Semivolatiles - Sediment											
1,2,4,5-Tetrachlorobenzene	ND	230	85	85	0.0	84	86	2.4	30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	80	81	1.2	81	82	1.2	30 - 130	30	
1,2-Dichlorobenzene	ND	230	74	74	0.0	71	72	1.4	30 - 130	30	
1,2-Diphenylhydrazine	ND	230	104	105	1.0	84	85	1.2	30 - 130	30	
1,3-Dichlorobenzene	ND	230	70	71	1.4	66	67	1.5	30 - 130	30	
1,4-Dichlorobenzene	ND	230	71	71	0.0	69	69	0.0	30 - 130	30	
2,4,5-Trichlorophenol	ND	230	99	98	1.0	94	95	1.1	30 - 130	30	
2,4,6-Trichlorophenol	ND	130	95	96	1.0	92	92	0.0	30 - 130	30	
2,4-Dichlorophenol	ND	130	89	91	2.2	85	86	1.2	30 - 130	30	
2,4-Dimethylphenol	ND	230	84	84	0.0	63	62	1.6	30 - 130	30	
2,4-Dinitrophenol	ND	230	<10	<10	NC	<10	<10	NC	30 - 130	30	l,m
2,4-Dinitrotoluene	ND	130	102	99	3.0	89	90	1.1	30 - 130	30	
2,6-Dinitrotoluene	ND	130	97	97	0.0	89	88	1.1	30 - 130	30	
2-Chloronaphthalene	ND	230	93	94	1.1	88	86	2.3	30 - 130	30	
2-Chlorophenol	ND	230	82	82	0.0	79	79	0.0	30 - 130	30	
2-Methylnaphthalene	ND	230	85	85	0.0	84	85	1.2	30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	88	89	1.1	81	80	1.2	30 - 130	30	
2-Nitroaniline	ND	670	117	120	2.5	97	100	3.0	30 - 130	30	
2-Nitrophenol	ND	230	82	82	0.0	89	82	8.2	30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	91	94	3.2	85	86	1.2	30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	111	112	0.9	17	19	11.1	30 - 130	30	m
3-Nitroaniline	ND	670	100	101	1.0	50	53	5.8	30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	170	47	45	4.3	17	<10	NC	30 - 130	30	m
4-Bromophenyl phenyl ether	ND	230	97	98	1.0	81	78	3.8	30 - 130	30	
4-Chloro-3-methylphenol	ND	230	90	92	2.2	87	92	5.6	30 - 130	30	
4-Chloroaniline	ND	230	89	91	2.2	26	27	3.8	30 - 130	30	m
4-Chlorophenyl phenyl ether	ND	230	94	96	2.1	82	83	1.2	30 - 130	30	
4-Nitroaniline	ND	670	105	107	1.9	97	100	3.0	30 - 130	30	
4-Nitrophenol	ND	230	92	93	1.1	103	112	8.4	30 - 130	30	
Acenaphthene	ND	230	88	91	3.4	81	80	1.2	30 - 130	30	
Acenaphthylene	ND	230	91	93	2.2	82	82	0.0	30 - 130	30	
Acetophenone	ND	230	89	90	1.1	88	87	1.1	30 - 130	30	
Aniline	ND	970	64	64	0.0	22	23	4.4	30 - 130	30	m
Anthracene	ND	230	97	98	1.0	89	88	1.1	30 - 130	30	
Benz(a)anthracene	ND	230	103	103	0.0	128	127	0.8	30 - 130	30	
Benzidine	ND	330	29	27	7.1	<10	<10	NC	30 - 130	30	l,m
Benzo(a)pyrene	ND	230	96	96	0.0	109	108	0.9	30 - 130	30	
Benzo(b)fluoranthene	ND	230	92	94	2.2	119	NC	NC	30 - 130	30	
Benzo(ghi)perylene	ND	230	101	98	3.0	94	74	23.8	30 - 130	30	
Benzo(k)fluoranthene	ND	230	96	97	1.0	106	109	2.8	30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	12	13	8.0	30 - 130	30	l,m

QA/QC Data

SDG I.D.: GBJ06364

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Benzyl butyl phthalate	ND	230	94	92	2.2	110	117	6.2	30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	87	89	2.3	83	83	0.0	30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	70	70	0.0	68	68	0.0	30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	76	78	2.6	75	76	1.3	30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	93	94	1.1	113	115	1.8	30 - 130	30	
Carbazole	ND	500	96	97	1.0	97	97	0.0	30 - 130	30	
Chrysene	ND	230	101	101	0.0	129	131	1.5	30 - 130	30	m
Dibenz(a,h)anthracene	ND	230	99	98	1.0	82	71	14.4	30 - 130	30	
Dibenzofuran	ND	230	96	96	0.0	87	88	1.1	30 - 130	30	
Diethyl phthalate	ND	230	100	100	0.0	86	87	1.2	30 - 130	30	
Dimethylphthalate	ND	230	99	100	1.0	87	86	1.2	30 - 130	30	
Di-n-butylphthalate	ND	230	98	98	0.0	81	81	0.0	30 - 130	30	
Di-n-octylphthalate	ND	230	97	99	2.0	76	79	3.9	30 - 130	30	
Fluoranthene	ND	230	94	93	1.1	110	NC	NC	30 - 130	30	
Fluorene	ND	230	96	97	1.0	86	87	1.2	30 - 130	30	
Hexachlorobenzene	ND	130	101	98	3.0	85	82	3.6	30 - 130	30	
Hexachlorobutadiene	ND	230	83	83	0.0	83	82	1.2	30 - 130	30	
Hexachlorocyclopentadiene	ND	230	84	85	1.2	<10	<10	NC	30 - 130	30	m
Hexachloroethane	ND	130	72	74	2.7	65	57	13.1	30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	99	96	3.1	93	79	16.3	30 - 130	30	
Isophorone	ND	130	81	82	1.2	78	79	1.3	30 - 130	30	
Naphthalene	ND	230	79	80	1.3	79	81	2.5	30 - 130	30	
Nitrobenzene	ND	130	86	86	0.0	87	87	0.0	30 - 130	30	
N-Nitrosodimethylamine	ND	230	62	65	4.7	63	61	3.2	30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	86	88	2.3	84	85	1.2	30 - 130	30	
N-Nitrosodiphenylamine	ND	130	102	102	0.0	89	90	1.1	30 - 130	30	
Pentachloronitrobenzene	ND	230	108	108	0.0	93	88	5.5	30 - 130	30	
Pentachlorophenol	ND	230	77	77	0.0	107	107	0.0	30 - 130	30	
Phenanthrene	ND	230	97	97	0.0	97	99	2.0	30 - 130	30	
Phenol	ND	230	79	79	0.0	78	80	2.5	30 - 130	30	
Pyrene	ND	230	95	95	0.0	108	NC	NC	30 - 130	30	
Pyridine	ND	230	33	35	5.9	46	44	4.4	30 - 130	30	
% 2,4,6-Tribromophenol	88	%	94	93	1.1	90	90	0.0	15 - 130	30	
% 2-Fluorobiphenyl	71	%	85	87	2.3	78	77	1.3	30 - 130	30	
% 2-Fluorophenol	64	%	69	69	0.0	68	67	1.5	15 - 130	30	
% Nitrobenzene-d5	64	%	80	81	1.2	82	83	1.2	30 - 130	30	
% Phenol-d5	64	%	73	74	1.4	73	73	0.0	15 - 130	30	
% Terphenyl-d14	85	%	87	86	1.2	83	72	14.2	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%)

I = 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
May 08, 2015

Sample Criteria Exceedences Report

GBJ06364 - GZA-AMER

Criteria: None

State: CT

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units

*** No Data to Display ***

Phoenix Laboratories does not assume responsibility for the data contained in this report. It is provided as an additional tool to identify requested criteria exceedences. All efforts are made to ensure the accuracy of the data (obtained from appropriate agencies). A lack of exceedence information does not necessarily suggest conformance to the criteria. It is ultimately the site professional's responsibility to determine appropriate compliance.

Reasonable Confidence Protocol
Laboratory Analysis QA/QC Certification Form

Laboratory Name: Phoenix Environmental Labs, Inc. **Client:** GZA GeoEnvironmental, Inc.

Project Location: AMERBELLE MILLS **Project Number:**

Laboratory Sample ID(s): BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369

Sampling Date(s): 4/22/2015

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, SVOASIM 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 knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Phyllis Shiller

Date: Friday, May 08, 2015

Printed Name: Phyllis Shiller

Position: Laboratory Director

Nov 2007

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

May 08, 2015

SDG I.D.: GBJ06364

QC Batch 305687 (Samples: BJ06364, BJ06365, BJ06366): ----- The LCS and/or the LCSD recovery is above the upper range, therefore a slight high bias is possible. (Tot.Org.Carbon)

Metals Analysis:
The client requested a shorter list of elements than the 6010 RCP list. The following analytes from the 6010 RCP Metals list were not reported: Antimony, Beryllium, Copper, Nickel, Thallium, Vanadium, Zinc.

BJ06367 required a dilution for Semi-volatiles due to the presence of target and/or non-target compounds. This resulted in elevated reporting limits that exceed the requested criteria for one or more analytes.

Mercury Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? Yes.

Instrument: Merlin 04/23/15-1 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)

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: 4/23/2015

QC (Batch Specific)

---------- Sample No: BJ06628, QA/QC Batch: 305565 ----------

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 04/23/15-1 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)

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.

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RCP Certification Report

May 08, 2015

SDG I.D.: GBJ06364

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: 4/23/2015

Instrument: Arcos 04/24/15-1 (BJ06365, BJ06366)

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: 4/24/2015

QC (Batch Specific)

---------- Sample No: BJ06183, QA/QC Batch: 305496 ----------

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.

SVOA Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

See SVOASIM Narration.

Instrument: Chem12 04/23/15-1 (BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369)

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_0423):
97% of target compounds met criteria.
The following compounds had %RSDs >20%: 2,4-Dinitrophenol (27%), Benzidine (41%), Benzoic Acid (23%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM12/0423_11-sv_0423):
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 (.086)[0.1], Hexachlorobenzene (.093)[0.1]
The following compounds did not meet minimum response factors: None.

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ACCREDITED IN ACCORDANCE WITH nelac
NY # 11301

RCP Certification Report

May 08, 2015

SDG I.D.: GBJ06364

Printed Name	Damien Drobinski
Position:	Chemist
Date:	4/23/2015

QC (Site Specific)

---------- Sample No: BJ06364, QA/QC Batch: 305519 ----------

All LCS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), Benzidine(29%), Benzoic Acid(<10%)

All LCSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), Benzidine(27%), Benzoic Acid(<10%)

All LCS/LCSD RPDs were less than 30% with the following exceptions: None.

All MS recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), 3,3'-Dichlorobenzidine(17%), 4,6-Dinitro-2-methylphenol(17%), 4-Chloroaniline(26%), Aniline(22%), Benzidine(<10%), Benzoic Acid(12%), Hexachlorocyclopentadiene(<10%)

All MSD recoveries were within 30 - 130 with the following exceptions: 2,4-Dinitrophenol(<10%), 3,3'-Dichlorobenzidine(19%), 4,6-Dinitro-2-methylphenol(<10%), 4-Chloroaniline(27%), Aniline(23%), Benzidine(<10%), Benzoic Acid(13%), Chrysene(131%), Hexachlorocyclopentadiene(<10%)

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.

SVOASIM Narration

Were all QA/QC performance criteria specified in the Reasonable Confidence Protocol documents achieved? No.

QC Batch 305519 (Samples: BJ06364, BJ06365, BJ06366, BJ06367, BJ06368, BJ06369): —

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 possible. (3,3''-Dichlorobenzidine, 4,6-Dinitro-2-methylphenol, 4-Chloroaniline, Aniline, Hexachlorocyclopentadiene)

The MS and/or the MSD recovery is above the upper range, therefore a slight high bias is possible. (Chrysene)

The QC recoveries for one or more analytes is below the method criteria. A slight low bias is likely. (2,4-Dinitrophenol, Benzidine, Benzoic Acid)

Instrument: Chem04 04/23/15-1 (BJ06364)

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 Verification (CHEM04/SIM_0406):
100% of target compounds met criteria.

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

RCP Certification Report

May 08, 2015

SDG I.D.: GBJ06364

The following compounds had %RSDs >20%: None.
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM04/0423_03-SIM_0406):
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 (.057)[0.1], Bis(2-chloroethyl)ether (.678)[0.7]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/23/2015

Instrument: Chem07 04/23/15-1 (BJ06364, BJ06365, BJ06366, BJ06368, BJ06369)

Initial Calibration Verification (CHEM07/SIM_0403):
98% of target compounds met criteria.
The following compounds had %RSDs >20%: Pentachlorophenol (23%)
The following compounds did not meet a minimum response factor of 0.01: None.

Continuing Calibration Verification (CHEM07/0423_03-SIM_0403):
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 (.055)[0.1]
The following compounds did not meet minimum response factors: None.

Printed Name Damien Drobinski
Position: Chemist
Date: 4/23/2015

FUSS & O'NEILL

Appendix G

Public Notice Documentation

Affidavit of Publication

State of Conneticut
County of Hartford } ss. Manchester

I Kathy Fuller do solemnly swear that I am Classified Bookkeeper of the JOURNAL INQUIRER printed and published at Manchester in Connecticut and that from my own personal knowledge and reference to the files of said publication the advertisement of

ROCKVILLE/EAST MAIN CORP

was inserted in the regular editions on the dates as follows:

06/09/2017

Kathy Fuller
Billing Department

Subscribed and sworn to before me this 9th day of June, 2017

Notary Public

KARIN E. MARSH
NOTARY PUBLIC
MY COMMISSION EXPIRES OCT. 31, 2018

Seal

Ad text :

PUBLIC NOTICE

Notice of Remediation: Remediation activities are being conducted at the facility owned by Rockville East Main Corporation at 40 Brooklyn Street and 1 Court Street in Vernon, Connecticut to comply with the State of Connecticut Remediation Standard Regulations (Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies). Environmental investigations at the property have identified releases of petroleum hydrocarbons and polycyclic aromatic hydrocarbons related to historical fuel oil releases and historical fill containing coal and ash. A soil remediation program consisting of impacted soil excavation and rendering impacted soil inaccessible and environmentally isolated has been developed to address impacted soil.

In accordance with Section 22a-133q of the Regulations of Connecticut State Agencies, this notice also notifies the public that an Environmental Land Use Restriction ("ELUR") will be proposed as part of the remediation. The purpose of the ELUR is to prohibit the following: 1) residential use; 2) disturbance of inaccessible and environmentally isolated soil; and 3) demolition of portions of the building used to render soil environmentally isolated.

For more information regarding this activity including a copy of the proposed ELUR, please contact Mr. Brent J. Henebry of Fuss & O'Neill, Inc. at (860) 646-2469. If you have any comments or questions about the proposed soil remediation program or ELUR, submit them within 45 days of this notice to the Connecticut Department of Energy and Environmental Protection, c/o Mr. Thomas O'Connor, 79 Elm Street, Hartford, Connecticut 06106-5127.

Journal Inquirer
June 9, 2017

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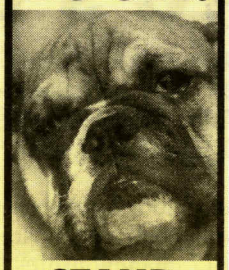

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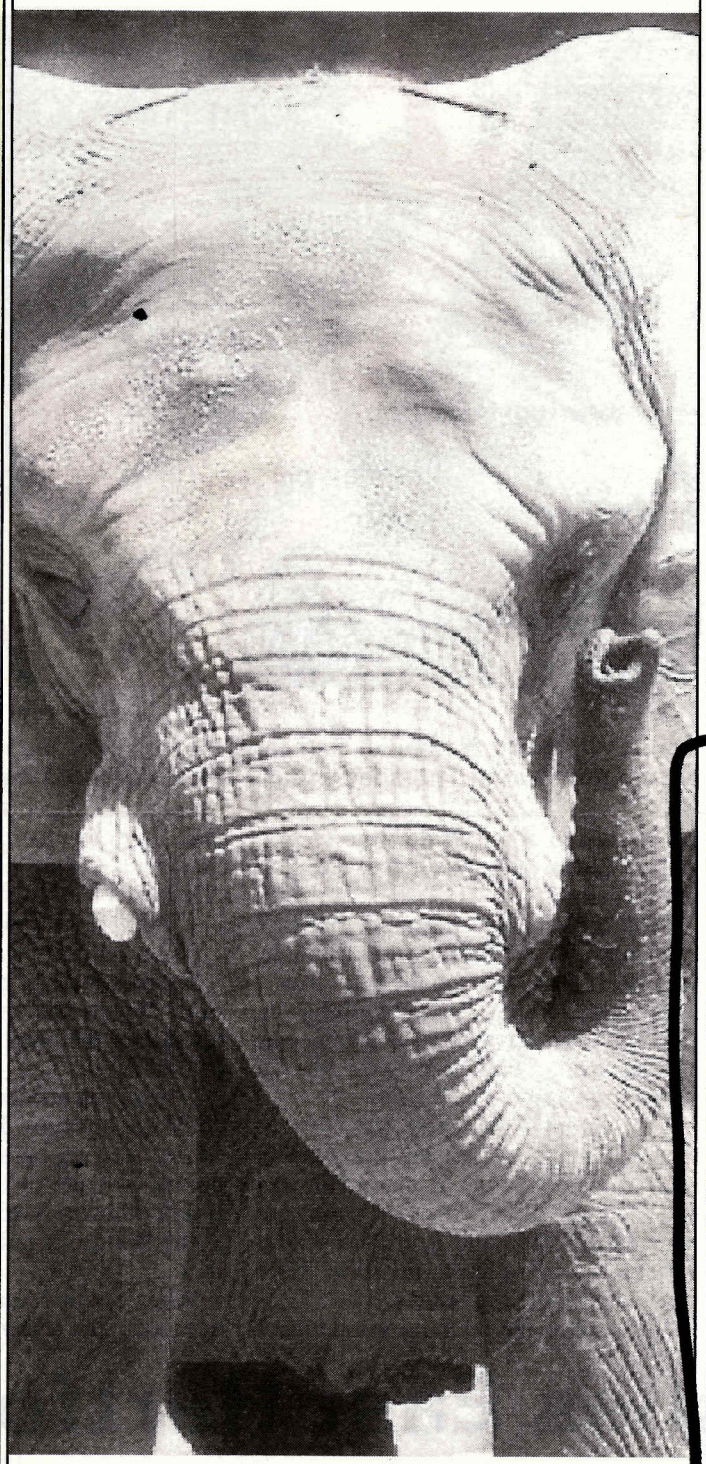

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PUBLIC NOTICE

PUBLIC NOTICE

TOWN OF WINDSOR LOCKS
NOTICE OF TOWN MEETING
WEDNESDAY, JUNE 14, 2017

A Town Meeting of the electors and citizens qualified to vote in town meetings of the Town of Windsor Locks will be held at the Town Hall, 50 Church Street, Windsor Locks, Connecticut on Wednesday, June 14, 2017, at 7:30 p.m. for the following purpose:

1. To introduce, discuss and act upon a resolution to:
   a) submit an application for the Windsor Locks Transit-Oriented Development Plan Implementation, Second Phase , in accordance with the 2017 Responsible Growth and Transit-Oriented Development (TOD) Grant Request for Applications, regarding the redevelopment of parcels on the west side of Main Street between Oak Street and Chestnut Street; and,
   b) to authorize J. Christopher Kervick, First Selectman of the Town of Windsor Locks, or his successor, to sign the grant application, attached hereto, and to sign any other documents associated with administering the grant, if awarded, including but not limited to the final grant agreement and any amendments thereto.

Dated at Windsor Locks, Connecticut, this 8th day of June 2017

BOARD OF SELECTMEN
J. Christopher Kervick, First Selectman
Michelle L. Hill, Selectman
Denise T. Balboni, Selectman

Journal Inquirer

PUBLIC NOTICE

Notice of Remediation: Remediation activities are being conducted at the facility owned by Rockville East Main Corporation at 40 Brooklyn Street and 1 Court Street in Vernon, Connecticut to comply with the State of Connecticut Remediation Standard Regulations (Sections 22a-133k-1 through 22a-133k-3 of the Regulations of Connecticut State Agencies). Environmental investigations at the property have identified releases of petroleum hydrocarbons and polycyclic aromatic hydrocarbons related to historical fuel oil releases and historical fill containing coal and ash. A soil remediation program consisting of impacted soil excavation and rendering impacted soil inaccessible and environmentally isolated has been developed to address impacted soil.

In accordance with Section 22a-133q of the Regulations of Connecticut State Agencies, this notice also notifies the public that an Environmental Land Use Restriction ("ELUR") will be proposed as part of the remediation. The purpose of the ELUR is to prohibit the following: 1) residential use; 2) disturbance of inaccessible and environmentally isolated soil; and 3) demolition of portions of the building used to render soil environmentally isolated.

For more information regarding this activity including a copy of the proposed ELUR, please contact Mr. Brent J. Henebry of Fuss & O'Neill, Inc. at (860) 646-2469. If you have any comments or questions about the proposed soil remediation program or ELUR, submit them within 45 days of this notice to the Connecticut Department of Energy and Environmental Protection, c/o Mr. Thomas O'Connor, 79 Elm Street, Hartford, Connecticut 06106-5127.

Journal Inquirer
June 9, 2017

Try our tasty food section Wednesdays in the Journal Inquirer

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ms. Patrice Sulik
Director of Health
31 North Main Street
Enfield, CT 06082

9590 9402 1769 6074 2816 81

2. Article Number *(Transfer from service label)*

7016 0750 0001 2151 1438

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X P. Deschamps ☑ Agent ☐ Addressee

B. Received by *(Printed Name)* P. DESCHAMPS

C. Date of Delivery 4/12/17

D. Is delivery address different from item 1? ☐ Yes
er delivery address below: ☐ No

☐ Adult Signature
☐ Adult Signature Restricted Delivery
☑ Certified Mail®
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☐ Signature Confirmation™
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PS Form 3811, July 2015 PSN 7530-02-000-9053

Domestic Return Receipt

FUSS & O'NEILL

June 8, 2017

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Ms. Patrice Sulik
Director of Health
31 North Main Street
Enfield, CT 06082

RE: Notice of Remediation Activities
40 Brooklyn Street and 1 Court Street
Vernon, Connecticut

Dear Ms. Sulik:

This letter provides notice of remedial activities to be conducted on the property located at 40 Brooklyn Street (owned by Brooklyn East Main, LLC) and 1 Court Street (owned by Rockville East Main Corporation). Environmental investigations on the property have identified releases of petroleum hydrocarbons and polycyclic aromatic hydrocarbons to soil that require remedial action. The releases are associated with a former No. 4 fuel oil underground storage tank and the historical placement of fill containing coal, coal ash, and wood ash. The impacted soil is to be remediated in accordance with the Connecticut Department of Energy and Environmental Protection (DEEP) Remediation Standard Regulations (RSRs) through excavation and rendering impacted soil inaccessible and environmentally isolated.

We are providing this notice as required by §22a-134a(i)(2) of the Connecticut General Statutes and Section 22a-133k-1(d)(2) of the Regulations of Connecticut State Agencies. No action on your part is required. If you require more information regarding the remedial activities at the 60 East Main Street property, please contact me at (860) 646-2469. Written comments on the proposed remedial activities can be forwarded to the Connecticut Department of Energy and Environmental Protection (DEEP) staff member identified below. Comments will be accepted if received within 45 days of the date of this letter.

Mr. Thomas O'Connor
Department of Energy and Environmental Protection
79 Elm Street, Hartford, CT 06106

Sincerely,

Brent J. Henebry, LEP
Associate

146 Hartford Road
Manchester, CT
06040
t 860.646.2469
800.286.2469
f 860.533.5143

www.fando.com

Connecticut
Massachusetts
Rhode Island
South Carolina

ENVIRONMENTAL CLEAN-UP
IN PROGRESS AT THIS SITE
40 Brooklyn Street and 1 Court Street
Vernon, CT
For Further Information Contact:
Brent J. Henebry
Fuss & O'Neill, Inc.
860-646-2469

FUSS & O'NEILL

Appendix H

Imported Fill Documentation and Waste Manifests

POWDER HILL

SAND & GRAVEL, LLC

July 17, 2017

R & R Landscaping
140 Mountain Street
Ellington, CT. 06029

Attention: Mr. Roger Flavell

Reference: Source of Material

Dear Mr. Flavell,

The source of material for your project at Anocoil - Rockville, CT. is from a virgin bank in our gravel pit in Ellington CT. This material is free from any recycled materials and is completely natural source.

Sincerely,

Edward Spazzarini
Member

P.O. Box 3282 / Enfield, CT 06083-3282

Phone (860) 741-7274 / Fax (860) 741-7

This Invoice is submitted on behalf of Clean Earth, Inc. located at 334 S. Warminster Road, Hatboro, PA 19040.

Phoenix Soil | A Clean Earth Company
Remit To:
P.O Box 95000-3755
Philadelphia, PA 19195-0001
Phone: 215-734-1400
Fax: 215-734-1423

Invoice

Invoice Number:
PSI0097912
Invoice Date:
08/10/17
Order Number

Page:
1

Sold To:
FUSS & 0'NEILL INC
146 HARTFORD RD
MANCHESTER, CT 06040

Site Address:
Rockville East Main Corp
Howard Fromson
60 East Main St
Rockville, CT 06066
860-424-1087

Customer No.	Customer PO	Payment Terms
FUS416P		Net 30 Days
Sales Rep ID	**Approval Number**	**Payment Due**
GLEN WILKINSON	174070965	09/09/17

Job No.	Description	Scale Date:	Ticket No.	Manifest No.	Quantity	Unit	Unit Price	Total Price
145829	Soil Treatment Type I	08/04/17	700000690695	141008	18.26	Tons	44.00	803.44
145829	Soil Treatment Type I	08/04/17	700000690846	141009	12.19	Tons	44.00	536.36
145829	Lab Fee				1	Unit	55.00	55.00
145829	5.7% Env, Energy, and Ins Fee				1	Unit	76.37	76.37

Amount Subject to Sales Tax	Amount Exempt from Sales Tax	Total Quantity:		
1,471.17	0.00	30.45		
			Subtotal:	1,471.17
			Invoice Discount:	0.00
			Total Sales Tax:	93.42
			Total:	**1,564.59**

CLEANEARTH

NON-RCRA HAZARDOUS WASTE MANIFEST

Global # 145829 141008
Approval # 174070965

1. GENERATOR'S NAME AND MAILING ADDRESS Rockville East Main Corp One Gold St. 14C Hartford, CT 06103 2. GENERATOR'S PHONE 860-424-1087		GENERATOR'S SITE ADDRESS 60 East Main St Rockville, CT 06066	
3. TRANSPORTER 1 COMPANY NAME R+R Landscaping	4. US EPA ID NUMBER NOT APPLICABLE	A. TRANSPORTER 1'S PHONE (860) 870 8518	TRANSPORTER'S PLATE NUMBER L25256
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER NOT APPLICABLE	B. TRANSPORTER 2'S PHONE ( )	TRANSPORTER'S PLATE NUMBER
7. DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	C. FACILITY'S PHONE (860) 747-8888	

9. US DOT DESCRIPTION *(INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)*	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Conneticut laws and regulations. I certify that at this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Agent for: Sudip Bohra, P.E.		08	04	17

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Ray Flavell		8	4	17

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 18.26 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Nora		8	4	17

FACILITY

Clean Earth of Connecticut
58 North Washington Street
Plainville, CT 06062
Ph: Fax:

Ticket: 700000690695

	Date	Time	Scale
In:	8/4/2017	07:33:43	CECTSCALE1
Out:	8/4/2017	07:43:55	

Manifest: 141008

Vehicle ID: L25256CT

Vehicle Permit:

	Lbs.	Tns
Gross:	66220.00	33.11
Tare:	29700.00	14.85
Net:	36520.00	18.26

Customer: FUSS & 0'NEILL INC

Carrier: .

Facility Approval#: 174070965

Generator: Rockville East Main Corp

Gen Address: One Gold St 14C
Hartford, CT 06062

Job Name: Anocoil Corporation/Rockville East Main

Job Address: 60 East Main St
Rockville, CT 06066

Contaminate Type	Quantity	Unit
Soil Treatment Type I	18.2600	TONS

Comment:

Driver:

Facility: _____
Al Khawaja, Qabas

NON-RCRA HAZARDOUS WASTE MANIFEST

Global # 145829 141009

Approval # 174070965

CLEANEARTH

1. GENERATOR'S NAME AND MAILING ADDRESS Rockville East Main Corp One Gold St., 14C Hartford, CT 06103 2. GENERATOR'S PHONE 860-424-1087		GENERATOR'S SITE ADDRESS 60 East Main St. Rockville, CT 06066	
3. TRANSPORTER 1 COMPANY NAME R&R Landscaping	4. US EPA ID NUMBER NOT APPLICABLE	A. TRANSPORTER 1'S PHONE (860) 870-8518	TRANSPORTER'S PLATE NUMBER L25256
5. TRANSPORTER 2 COMPANY NAME	6. US EPA ID NUMBER NOT APPLICABLE	B. TRANSPORTER 2'S PHONE ( )	TRANSPORTER'S PLATE NUMBER
7. DESIGNATED FACILITY NAME AND SITE ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	8. MAILING ADDRESS CLEAN EARTH OF CONNECTICUT 58 NORTH WASHINGTON STREET PLAINVILLE, CT 06062	C. FACILITY'S PHONE (860) 747-8888	

9. US DOT DESCRIPTION *(INCLUDING PROPER SHIPPING NAME, HAZARD CLASS, AND ID NUMBER)*	10. CONTAINERS NO.	10. CONTAINERS TYPE	11. TOTAL QUANTITY	12. UNIT WT/VOL
a. CONNECTICUT REGULATED WASTE SOLID, NONE, NONE	001	DT	00020	T
b.				
c.				

D. ADDITIONAL DESCRIPTIONS FOR MATERIALS LISTED ABOVE	E. HANDLING CODES FOR WASTES LISTED ABOVE	
	INTERIM	FINAL
SOIL CONTAMINATED WITH PETROLEUM HYDROCARBONS	SO2	T57

13. SPECIAL HANDLING INSTRUCTIONS AND ADDITIONAL INFORMATION

14. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable national government regulations, and all applicable State of Conneticut laws and regulations. I certify that at this material neither contains polychlorinated biphenyls (PCB's) in concentrations greater than 25 ppm, nor has been mixed in anyway with PCB's in concentrations greater than or equal to 50 ppm. I certify that the material listed above contained no free liquids at the time of loading.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Agent for, [illegible] fro	Sudip Bahun, fro.	08	04	17

15. TRANSPORTER 1 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Ray Flavell	[signature]	8	4	17

16. TRANSPORTER 2 ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR

17. DISCREPANCY INDICATION SPACE

11(a) CORRECTED WEIGHT AS SCALED 12.19 TON'S

18. FACILITY OWNER OR OPERATOR: CERTIFICATION OF RECEIPT OF WASTE MATERIALS COVERED BY THIS MANIFEST EXCEPT AS NOTED IN ITEM 13.

PRINTED/TYPED NAME	SIGNATURE	MONTH	DAY	YEAR
Nora	[signature]	8	4	17

FACILITY

Clean Earth of Connecticut
58 North Washington Street
Plainville, CT 06062
Ph: Fax:

Ticket: 700000690846

	Date	Time	Scale
In:	8/4/2017	09:20:47	CECTSCALE1
Out:	8/4/2017	09:27:49	

Manifest: 141009

Vehicle ID: L25256CT

Vehicle Permit:

	Lbs.	Tns
Gross:	54080.00	27.04
Tare:	29700.00	14.85
Net:	24380.00	12.19

Customer: FUSS & 0'NEILL INC

Carrier: .

Facility Approval#: 174070965

Generator: Rockville East Main Corp

Gen Address: One Gold St 14C
Hartford, CT 06062

Job Name: Anocoil Corporation/Rockville East Main

Job Address: 60 East Main St
Rockville, CT 06066

Contaminate Type	Quantity	Unit
Soil Treatment Type I	12.1900	TONS

Comment:

Driver:

Facility: _____
Al Khawaja, Qabas

FUSS & O'NEILL

Appendix I

Data Quality Assessment

FUSS & O'NEILL

Table I-1
Data Usability Evaluation
Phase II Environmental Site Assessment
Anocoil – 40 Brooklyn Street and 1 Cout Street
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Soil				
SB-04	Barium Copper	The laboratory duplicate RPD exceeded the method criteria.	Variability in the reported result is possible.	Barium and copper are not significant constituents of concern at the Site. Metals were run on this sample primarily to determine if pH had a significant effect on metals concentrations.
SB-01 SB-02	Fluorene	The LCS and LCSD recovery were above the upper range.	A significant bias was suspected by the laboratory.	A petroleum release has been confirmed at this location. Fluorene is not the primary constituent of concern, and other compounds were used to assess the release.
SB-09 SB-14 MW-03	ETPH	The LCS/LCSD RPD exceeded the method criteria for one or more surrogates.	Variability in the reported result is possible.	PAH data was also collected at these locations and were used to assist in the interpretation of the ETPH results.
MW-01 MW-02 SB-13 SB-11	Copper	The MS recovery was below the method criteria and the MSD recovery was above method criteria.	Sample heterogeneity suspected; variability in the reported result is possible.	The sample contained fill; heterogeneity is expected and data from across the Site was used to evaluate metals.
	Arsenic Copper	The laboratory duplicate RPD exceeded the method criteria.	Variability in the reported result is possible.	
MW-03	Chloromethane Methylene Chloride	The LCS and/or LCSD recoveries were below the method criteria.	A low bias is possible.	These compounds are not constituents of concern at the Site.

FUSS & O'NEILL

Table I-1
Data Usability Evaluation
Phase II Environmental Site Assessment
Anocoil – 40 Brooklyn Street and 1 Cout Street
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
SB-21	Copper	The MS and/or the MSD recovery were above the upper range.	A slight high bias is possible.	No changes in interpretation or compliance evaluation would result from a slight high copper bias in this sample.
SB-21 SB-22 SB-23	2,4-Dinitrophenol	The LCS and/or LCSD recovery were below range.	A low bias is possible.	Constituent not a primary constituent of concern.
	Benzidine Hexachlorocyclopentadiene	Analytes in the site specific matrix spike recovery was below the method criteria.	A low bias is likely.	Constituents not a primary constituent of concern.
	Pyrene	The MS and/or the MSD recovery was above the upper range.	A slight high bias is possible.	Other PAH compounds were used to evaluate the samples; a slight high bias for pyrene would not significantly affect the data evaluation.
	Benzoic Acid	The QC recovery was below the method criteria	A slight low bias is possible.	Constituent not a primary constituent of concern.
SB-14A MW-04 MW-05 SB-21 SB-22 SB-23	2-Hexanone	Analyte was below the method criteria.	A low bias is possible.	Constituent not a primary constituent of concern.
	1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene Hexachlorobutadiene Naphthalene	Analytes were below the method criteria.	A low bias is likely.	Constituents not a primary constituent of concern.
SB-25 SB-28	Barium	The Laboratory Duplicate RPD exceeded the method criteria.	Variability in the reported result is possible.	Constituent not a primary constituent of concern.
Equipment Blank	%DCBP	The LCS/LCSD RPD exceeded the method criteria for a surrogate.	Variability in the reported result is possible.	PCBs were not detected at the Site.

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Table I-1
Data Usability Evaluation
Phase II Environmental Site Assessment
Anocoil – 40 Brooklyn Street and 1 Cout Street
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
SB-25 SB-28	Benzo(b)fluoranthene	MS and/or the MSD recovery was above the upper range.	A slight high bias is possible.	PAHs were not detected at SB-28. SB-25 contained fill, and variability is expected. Other PAH compounds were also used to evaluate SB-25.
	Benzo(b)fluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Dibenz(a,h)anthracene Indeno(1,2,3-cd)pyrene	The MS/MSD RPD exceeded the method criteria.	Variability in the reported result is possible.	
SB-25	Methylene chloride	The LCS and/or LCSD recoveries were below the method criteria.	A low bias is possible.	Constituents not a primary constituent of concern.
	Bromomethane	The QC recovery wase below the method criteria.	A low bias is possible.	
SB-25 Trip Blank	Dichlorodifluoromethane	The LCS and/or LCSD recovery was below the method criteria	A low bias is possible.	Constituents not a primary constituent of concern.
	Chloroethane Trichlorofluoromethane	Analytes in the site specific matrix spike recovery was below the method criteria.	A low bias is possible.	
Groundwater				
MW-01 through -06	Acetone	Analyte in the site specific matrix spike recovery was below the method criteria.	A low bias is likely.	Acetone was detected in soil at MW-03 but it is not a primary constituent of concern.

Table I-1
Data Usability Evaluation
Phase II Environmental Site Assessment
Anocoil – 40 Brooklyn Street and 1 Cout Street
Vernon, Connecticut

Notes:

LCS = laboratory control spike
LCSD = LCS duplicate
MS = matrix spike
MSD = MS duplicate
QA/QC = quality assurance/quality control
RPD = relative percent difference

Matrix Spikes

A matrix spike (MS) is an aliquot of sample to which is added a known concentration of target analytes to evaluate whether the sample matrix contributes bias to the analytical results (accuracy). A MS duplicate (MSD) can be compared to the MS to evaluate precision. Reported recovery values outside the established limits for each method indicates a potential bias due to matrix interference. A high relative percent difference (RPD) between the MS and MSD indicate a low precision and possible sample heterogeneity.

Laboratory Control Spikes

A laboratory control spike (LCS) is a sample of known analytes and concentrations that is prepared and analyzed in exactly the same manner as the field samples, and the percent recoveries are compared to control limits in order to monitor the accuracy of the analysts performing laboratory method.

Calibration

Initial calibration is conducted using a using standards after calibration of the equipment but before samples are analyzed in order to verify the accuracy of the standards. Continuing calibration standards are analyzed periodically to verify that the calibration of the analytical instrumentation is acceptable.

Reporting Limits

Reporting limits established for the evaluation of the data include the Res DEC, GB PMC, SWPC, and Res VC.

Surrogates

Surrogates are organic compounds that are similar to target analytes but are not typically found in samples. Surrogates are added to samples prior to extraction and analysis, and the percent recovery of the surrogate is used to evaluate matrix effects, accuracy, and laboratory performance on individual samples.

Method Blanks

A method blank is an aliquot of analyte-free matrix that is processed with a batch of samples to determine whether contaminants may have been introduced in the laboratory.

FUSS & O'NEILL

Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Soil				
SB-29 SB-30 MW-08 MW-09 SB-32 to -36	Mercury	The MS and/or the MSD recovery is above the upper range.	A slight high bias is possible	Mercury is a minor constituent of concern compared to other metals All reported values were well below RSR criteria. A slight high bias did not affect interpretation of the results.
SB-29 SB-30	Chromium Nickel	The Laboratory Duplicate RPD exceeded the method criteria.	There may be variability in the reported result.	Metals are associated primarily with fill. Sufficient metals data was collected that variability in a few samples does not significantly affect interpretation of the data.
SB-37 MW-07	VOCs	Sample(s) required a dilution for Volatiles due to the presence of target and/or non-target compounds.	Elevated reporting limit.	Elevated aromatic VOCs were detected associated with a petroleum release. Samples were collected below the water table, so the only applicable criteria would be the DEC. The data were adequate to evaluate the nature of the release and compliance with the DEC.
SB-39	SVOCs	Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample.	Elevated reporting limit.	Fill containing PAHs is present throughout this area, and the substantial data collected is sufficient to evaluate fill-related impacts.

FUSS & O'NEILL

Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
SB-45	VOCs	Sample(s) required a dilution for Volatiles due to the presence of target and/or non-target compounds.	Elevated reporting limit.	The data were sufficient to determine the nature of the release (petroleum constituents) and that remediation would be required to meet the RSRs.
	PAHs	Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of nontarget material in the sample.	Elevated reporting limit.	
SB-38 to -41 SB-43 MW-10	Benzoic Acid	The QC recovery is below the method criteria.	A slight low bias is likely.	The reporting limit was well below applicable RSR criteria.
SB-48 SB-49 SB-54	SVOCs VOCs	Sample(s) required a dilution for Semivolatiles due to a matrix interference and/or the presence of a large amount of non-target material in the sample.	Elevated reporting limit.	Soil in these borings was impacted by a fuel oil release. The compounds reported above the elevated reporting limit were sufficient to characterize the release and evaluate compliance with the RSRs.
Equipment Blank	PCBs	The LCS/LCSD RPD exceeded the method criteria for surrogate %TCMX.	There may be variability in the reported result	PCBs were not detected in either the equipment blank or soil samples collected from the Site. Variability in the equipment blank reporting did not affect interpretation of the soil data.
	Acetone	The QC recovery was below the method criteria.	A slight low bias is likely.	Acetone was not detected in either the equipment blank or soil samples collected from the Site. A low bias in the equipment blank reporting did not affect interpretation of the soil data.

FUSS & O'NEILL

Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Soil (Supplemental Phase III)				
SB-67 (6.5-7.5') (10-11')	1,2,4-Trichlorobenzene Naphthalene trans-1,4-dichloro-2-butene	The LCS and/or the LCSD recovery is above the upper range.	The analytes were not reported in the sample(s), therefore no significant bias is suspected.	No further action.
Equipment Blank	ETPH	The surrogate recovery is below method criteriria for %n-Pentacosane. Insufficient sample is available for re-extraction.	A low bias is possible.	The sample was an equipment blank, and ETPH was not detected. This does not affect interpretation of the soil analytical data.
		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.	No further action.
		The LCS/LCSD RPD exceeds the method criteria.	ETPH was not reported in the sample(s) so no variability is suspected.	No further action.
	Bromomethane	he LCS and/or the LCSD recovery is above the upper range.	Analyte not reported; therefore no significant bias is suspected.	Compound is not a constituent of concern.
MW-15 (10.75-11.25') (15.25-16.5') SB-69 (0.2-1') (1.5-2') SB-70 (0.2-2') (3-4') SB-17 (0-0.5') Trip Blank	1,2,3-Trichlorobenzene 1,2,4-Trichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzene Bromomethane Carbon tetrachloride Dichlorodifluoromethane Naphthalene	One or more analytes in the site specific matrix spike recovery is below the method criteria.	A low bias is likely.	The only compound that is a constituent of concern is naphthalene. This compound was also analyzed with SVOCs (8270)
SB-69 (0.2-1') SB-70 (0.2-2') SB-17 (0-0.5')	trans-1,4-dichloro-2-butene	The QC recovery for the analyte is above the upper range	The analyte was not reported in the sample, therefore no significant bias is suspected.	Compound is not a constituent of concern.

FUSS & O'NEILL

Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
SS-122 SS-123 SS-124 SS-125	ETPH	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.	No further action.
SS-101 through SS-119	Benzo(k)fluoranthene	The MS/MSD RPD exceeds method criteria.	There may be variability in the reported result.	These samples were part of the evaluation of site fill. Numerous fill samples were collected, which would moderate the effect of variability in a subset, and the 95 percent UCL was used to evaluate compliance with the DEC. Other PAHs were also used to evaluate the quality of fill.
SS-127 SS-128 SS-131	Mercury	The site specific matrix spike recovery is below the method criteria	A low bias is likely.	These are samples of fill. Concentrations of mercury in fill have consistently been two to three orders of magnitude below the industrial/ commercial DEC, and a low bias is not expected to have an effect on the interpretation of the data.
SB-73 (0.5-2') SB-74 (0.5-2') SB-75 (0.5-2') Trip Blank	Dichlorodifluoromethane	Analyte is below method criteria.	A low bias is likely.	This is not a constituent of concern.
	Bromoform trans-1,4-dichloro-2-butene	The LCS and/or the LCSD recovery is above the upper range.	The analytes were not reported in the samples, therefore no significant bias is suspected.	These are not constituents of concern.
	Chlormethane	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.	This is not a constituent of concern.
TP-119D (3-4') TP-119E (3-4') TP-108D (1.5-2.5') TP-108E (4') TP-136 (0.5-4') TP-136 (7')	Fluoranthene Phenanthrene Pyrene	One or more analytes in the site specific matrix spike recovery is below the method criteria.	A low bias is likely.	These samples were part of the evaluation of site fill. The reported concentrations of these compounds in the fill were approximately two orders of magnitude below the industrial/ commercial DEC, and a low bias is not expected to have an effect on the interpretation of the data.

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Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Groundwater (June 2015)				
MW-07 MW-10	Aluminum	The Laboratory Duplicate RPD exceeded the method criteria.	There may be variability in the reported result.	Sufficient data was collected in order to evaluate data for Phase III purposes. A minimum of four quarters of data will be necessary to demonstrate compliance with the RSRs. The additional data will minimize the effect of reporting variability in a single sample.
MW-07 MW-08	Benzo(a)anthracene	The analyte was detected in a laboratory blank.	A high bias is suspected.	Multiple PAHs are present in groundwater. A high bias for this parameter does not affect interpretation of the results (reported value is still less than the SWPC). Additional monitoring is anticipated.
	Anthracene	The LCS and/or LCSD recoveries were below the method criteria.	A low bias is possible.	Detected concentrations of anthracene in these samples were several orders of magnitude below the SWPC. A low bias is not anticipated to significantly affect data evaluation. Additional monitoring is anticipated.
	Acenaphthylene Benzo(a)pyrene	The LCS/LCSD RPD exceeded the method criteria.	There may be variability in the reported result.	Groundwater is impacted by PAHs. Additional monitoring will be conducted to evaluate compliance with RSR criteria.
	Carbon disulfide	The QC recovery is above the upper range.	A slight high bias is possible	Carbon disulfide was detected only at MW-08. This may be a laboratory artifact. The reported value is well below baseline RSR criteria and does not affect evaluation of the Site.

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Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Groundwater (June 2016)				
MW-13 (duplicate)	ETPH	For the ETPH run AU-XL1 on 06/21/16 (BN56936), the discrimination check standard did not meet criteria for the C30 and C36 alkanes.	Since the TPH range in the samples is C9 to C24, no significant analytical bias is suspected.	No further action.
MW-07 MW-14 MW-13 (primary/dup) MW-08 MW-12 MW-11	ETPH	The LCS/LCSD RPD exceeds method criteria for one or more surrogates.	There may be variability in the reported result.	Additional monitoring was conducted at relevant monitoring wells following remediation in 2017. Variability during this round is not expected to be significant. PAHs were also evaluated concurrent with ETPH. MW-11 is a side-gradient well for AOC 101. Four rounds of monitoring were conducted at MW-11 as well as downgradient well MW-02.
MW-11 Trip Blank	Bromomethane Trichlorofluoromethane	The LCS and/or the LCSD recovery is above the upper range for one or more analytes.	The analytes were not reported in the samples, therefore no significant bias is suspected.	These are not constituents of concern.
Groundwater (September 2016)				
Trip Blank MW-13	Dichlorodifluoromethane	The QC recovery is above the upper range.	The analyte was not reported in the sample, therefore no significant bias is suspected.	Compound is not a constituent of concern

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Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
MW-13 MW-14	1,2,3-Trichlorobenzene	The LCS and/or the LCSD recovery is above the upper range.	The analyte was not reported in the sample, therefore no significant bias is suspected.	Compound is not a constituent of concern.
	Naphthalene	The LCS and/or the LCSD recovery is above the upper range.	A slight high bias is suspected.	The bias is associated with a VOC analysis. This compound was also analyzed with SVOCs. At least eight rounds of samples have been collected from each of these locations resulting in an adequate data set to evaluate groundwater quality. MW-14 is the downgradient monitoring location and has not exhibited detectable naphthalene.
Groundwater (December 2016)				
MW-01 MW-05 MW-12 MW-08 MW-02 MW-11	ETPH surrogate (% n-Pentacosane	The surrogates is outside of criteria.	The issue appeared to be with the QC sample and there was no evidence that the quality of the sample data was affected.	No further action.
MW-01 MW-04 MW-12 MW-08 MW-03	SVOCs	Poor surrogate recovery was observedone acid and/or one base surrogate.	The other surrogates associated with this sample were within criteria, so no bias is suspected.	No further action.
Trip Blank	Bromomethane	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.	Compound is not a constituent of concern.

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Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
MW-01 MW-14	Dichlorodifluoromethane	The LCS and/or the LCSD recovery is above the upper range.	The analyte was not reported in the sample, therefore no significant bias is suspected.	Compound is not a constituent of concern.
	Bromomethane	The analyte in the site specific matrix spike recovery is below the method criteria.	A low bias is likely.	One or more analytes in the site specific matrix spike recovery is below the method criteria, therefore a low bias is likely.
	1,2,3-Trichlorobenzene Bromomethane Tetrachloroethene	The MS/MSD RPD exceeds the method criteria.	There may be variability in the reported result.	These compounds have not been detected in groundwater at the Site.
MW-14	SVOCs	Low water tables resulted in the collection of a highly turbid sample (492 ntu)	Uncharacteristically high PAH concentrations were reported in this well.	The well was resampled in January 2017. Turbidity was lower (28 ntu), and reported concentrations were two orders of magnitude lower than December 2016.
Groundwater (March 2017)				
MW-14 MW-05 MW-12 MW-08 MW-01 MW-04	ETPH	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.	No further action.
MW-14 MW-12 MW-08	Aluminum	The Sample/Duplicate RPD exceeds the method criteria.	There may be variability in the reported result.	At the point used for evaluating compliance with surface water protection criteria (MW-14), the concentration of aluminum was well below the criteria; therefore, slight variations would not affect interpretation of the data.
Trip Blank MW-14 MW-01	Trans-1,4-dichloro-2-butene	The LCS and/or the LCSD recovery is above the upper range.	The analyte was not reported in the sample, therefore no significant bias is suspected.	Not a constituent of concern.

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Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias as Reported by Laboratory	Resolution
Groundwater (April 2017)				
MW-07 MW-03	ETPH	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.	No further action.
MW-02 MW-11 MW-13	Naphthalene (SVOCs)	The LCS/LCSD RPD exceeds the method criteria.	There may be variability in the reported result.	Naphthalene was reported through both VOC and SVOC analytical methods. As a conservative measure, the higher value was used to evaluate the data.
MW-07 MW-03 MW-13	Aluminum	The Sample/Duplicate RPD exceeds the method criteria.	There may be variability in the reported result.	The reported results were consistent with past monitoring results, so any variability is expected to be negligible.
Trip Blank MW-02 MW-11	1,2,3-Trichlorobenzene 1,2-Dibromo-3-chloropropane trans-1,4-dichloro-2-butene	The LCS and/or the LCSD recovery is above the upper range for one or more analytes.	The analytes were not reported in the sample, therefore no significant bias is suspected.	No further action.
	Naphthalene (VOCs)	The LCS and/or the LCSD recovery is above the upper range.	A slight high bias is possible	Naphthalene was reported through both VOC and SVOC analytical methods. As a conservative measure, the higher value was used to evaluate the data. At these two monitoring locations, naphthalene was well below the applicable groundwater criteria.

Table I-2
Data Usability Evaluation
Phase III Environmental Site Assessment
Former Anocoil Corporation
Vernon, Connecticut

Notes:

LCS = laboratory control spike
LCSD = LCS duplicate
MS = matrix spike
MSD = MS duplicate
QA/QC = quality assurance/quality control
RPD = relative percent difference

Matrix Spikes

A matrix spike (MS) is an aliquot of sample to which is added a known concentration of target analytes to evaluate whether the sample matrix contributes bias to the analytical results (accuracy). A MS duplicate (MSD) can be compared to the MS to evaluate precision. Reported recovery values outside the established limits for each method indicates a potential bias due to matrix interference. A high relative percent difference (RPD) between the MS and MSD indicate a low precision and possible sample heterogeneity.

Laboratory Control Spikes

A laboratory control spike (LCS) is a sample of known analytes and concentrations that is prepared and analyzed in exactly the same manner as the field samples, and the percent recoveries are compared to control limits in order to monitor the accuracy of the analysts performing laboratory method.

Calibration

Initial calibration is conducted using a using standards after calibration of the equipment but before samples are analyzed in order to verify the accuracy of the standards. Continuing calibration standards are analyzed periodically to verify that the calibration of the analytical instrumentation is acceptable.

Reporting Limits

Reporting limits established for the evaluation of the data include the Res DEC, GB PMC, SWPC, and Res VC.

Surrogates

Surrogates are organic compounds that are similar to target analytes but are not typically found in samples. Surrogates are added to samples prior to extraction and analysis, and the percent recovery of the surrogate is used to evaluate matrix effects, accuracy, and laboratory performance on individual samples.

Method Blanks

A method blank is an aliquot of analyte-free matrix that is processed with a batch of samples to determine whether contaminants may have been introduced in the laboratory.

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Table I-3
Data Usability Evaluation
Post-Remediation Data
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias	Resolution
Post-Remediation Soil (AOC 7)				
A07-01 A07-02 A07-03 A07-04 A07-05 A07-06	ETPH surrogate % n-Pentacosane	The surrogate recovery for the blank and LCSD were outside of acceptance criteria.	A sample bias is not suspected - all sample surrogate recoveries are within criteria.	No further action.
Post-Remediation Groundwater (AOCs 7 & 12), August 2017				
MW-07 MW-08 MW-13 MW-14	Anthracene, Benzo(a)anthracene Pyrene	The MS/MSD RPD exceeds the method criteria.	There may be variability in the reported result.	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria, and only pyrene was detected at MW-14 at trace concentrations.
	Naphthalene	Initial Calibration Verification - RSD>20%	Potential variability in the reported result.	
	% Terphenyl-d14	The MS/MSD RPD exceeds the method criteria.	There may be variability in the reported result.	
MW-13	Naphthalene	Initial Calibration Verification - RSD>20%	Potential variability in the reported result.	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria.

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Table I-3
Data Usability Evaluation
Post-Remediation Data
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias	Resolution
Post-Remediation Groundwater (AOCs 7 & 12), November 2017				
MW-07	Acenaphthylene Benzo(a)pyrene	The LCS/LCSD RPD exceeds the method criteria.	There may be variability in the reported result.	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria.
	Acenaphthylene	The LCS and/or LCSD recovery is below method criteria.	No significant bias suspected.	No further action.
	Chrysene	Initial calibration verification- RSD>20%.	Potential variability in the reported result	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria.
Post-Remediation Groundwater (AOCs 7 & 12), February 2018				
MW-13	2-Methylnaphthalene, Naphthalene	The MS/MSD RPD exceeds method criteria.	There may be a slight variability in the reported result.	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria.
MW-08 MW-07 MW-14 MW-13 Dup	2-Methylnaphthalene, Naphthalene	The MS/MSD RPD exceeds method criteria.	There may be a slight variability in the reported result.	Four rounds of sampling minimizes the effects of variability. MW-14 is the downgradient compliance point for the surface water protection criteria, and these compounds were not detected at MW-14.
	Benzo(ghi)perylene	Initial Calibration Verification %RSD>20 %	Potential variability in the reported result.	

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Table I-3
Data Usability Evaluation
Post-Remediation Data
Former Anocoil Corporation
Vernon, Connecticut

Affected Samples	Affected Parameters	Identified Issue	Potential Bias	Resolution
Post-Remediation Groundwater (AOCs 7 & 12), May 2018				
MW-07 MW-08 MW-13 MW-13 Dup MW-14	% Nitrobenzene -d5 (PAH surrogate)	The LCS/LCSD RPD exceeds the method criteria for one or more surrogates. The MS/MSD RPD exceeds the method criteria for one or more analytes. Continuing calibration verification did not meet % deviation criteria. Continuing calibration verification did not meet maximum % deviation.	There may be variability in the reported result.	Individual compounds (lighter PAH fraction including 2-methylnaphthalene and naphthalene) associated with this surrogate exhibited MS/MSD and LCS/LCSD RPDs within criteria; therefore, no significant variability is suspected.
	Benzo(ghi)perylene Dibenz(a,h)anthracene Fluorene Indeno(1,2,3-cd)pyrene	The MS/MSD RPD exceeds the method criteria for one or more surrogates.	There may be variability in the reported result.	The RPD for these compounds was only slightly above criteria. Minimal variability is suspected. Four rounds of sampling minimizes potential bias associated with such variability. In addition, MW-14 is the downgradient compliance point for the surface water protection criteria, and these compounds were not detected at MW-14.

Table I-3
Data Usability Evaluation
Post-Remediation Data
Former Anocoil Corporation
Vernon, Connecticut

Notes:

LCS = laboratory control spike
LCSD = LCS duplicate
MS = matrix spike
MSD = MS duplicate
QA/QC = quality assurance/quality control
RSD = relative standard deviation
RPD = relative percent difference
< = less than
> = greater than

Matrix Spikes

A matrix spike (MS) is an aliquot of sample to which known concentrations of target analytes are added in the laboratory to evaluate whether the sample matrix contributes bias to the analytical results (accuracy). A MS duplicate (MSD) can be compared to the MS to evaluate precision. Reported recovery values outside the established limits for each method indicates a potential bias due to matrix interference. A high relative percent difference (RPD) between the MS and MSD indicate a low precision and possible sample heterogeneity.

Laboratory Control Samples

A laboratory control sample (LCS) is a reference sample of known analytes and concentrations that is analyzed in exactly the same manner as the field samples. The LCS may be a purchased reference standard or a spiking solution used to spike reagent water or clean soil. The percent recoveries are compared to control limits in order to assess general method performance based on the ability of the laboratory to successfully recover target analytes from a control matrix.

Calibration

Initial calibration is conducted using standards after calibration of the equipment but before samples are analyzed in order to verify the accuracy of the standards. Continuing calibration standards are analyzed periodically to verify that the calibration of the analytical instrumentation is acceptable.

Reporting Limits

Reporting limits established for the evaluation of the data include:

- Industrial/commercial direct exposure criteria and GB pollutant mobility criteria for soil
- Industrial/commercial volatilization criteria and surface water protection criteria for groundwater.

Surrogates

Surrogates are organic compounds that are similar to target analytes but are not typically found in samples. Surrogates are added to samples prior to extraction and analysis, and the percent recovery of the surrogate is used to evaluate matrix effects, accuracy, and laboratory performance on individual samples.

Method Blanks

A method blank is an aliquot of analyte-free matrix that is processed with a batch of samples to determine whether contaminants may have been introduced in the laboratory.

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Appendix J

Certificates of Title for ELURs

CERTIFICATE OF TITLE

FROM Eban Burns, Esq.

TO Commissioner of Energy and Environmental Protection
State of Connecticut
79 Elm Street
Hartford, CT 06106

and Murtha Cullina LLP
CityPlace I
185 Asylum Street
Hartford, CT 06103-3469

DATE July 9, 2018

This is to certify that after an examination of the land records, as indexed, of the Town of Vernon, County of Hartford and State of Connecticut to the date hereof, I am of the opinion that **Brooklyn East Main, LLC** is the owner of the marketable fee simple title of record to the property located at **40 Brooklyn Street**, and bounded and described as follows:

SEE SCHEDULE A

Being the same premises acquired by the present owner by Quitclaim Deed from Howard A. Fromson to Brooklyn East Main, LLC dated 3/28/2016 and recorded 4/1/16 in Volume 2443 at Page 76 of the Vernon Land Records.

Said premises are free and clear of all properly indexed encumbrances EXCEPT:

1. Any and all provisions of any ordinance, municipal or other governmental regulation or public or private law.
2. Real estate taxes to the Town of Vernon on the Grand List of October 1, 2018 and subsequent lists, not yet due and payable. Real estate taxes on the 2017 list, July ½ not paid, not delinquent, please see tax statement.
3. Sewer use charges to the Town of Vernon, please call (860) 870-3699.
4. Water use charges to the Connecticut Water Company.
5. Any facts that an accurate survey or personal inspection of said premises might disclose.
6. Rights of present lessees, tenants or persons or parties in possession.
7. Any lien, or right to a lien, for labor, services or materials furnished within the past ninety days for which no certificate of lien has been recorded.

8. Easements set forth on a Map entitled "Map Prepared for The Ano-Coil Corporation East Main, Court & Brooklyn Streets Rockville, CT." dated 12/85, last revised December 30, 1985 and recorded 1/2/1986 in the Vernon Land Records as Maps 2026 and 2027; as affected by Approval Request For Waiver From Certain Subordination Agreements by the Connecticut Department of Energy & Environmental Protection recorded July 10, 2018 in Volume 2566 at Page 98 of the said land records.
9. Notice of special permit by the Vernon Planning & Zoning Commission dated 3/12/1986 and recorded in Volume 556 at Page 68 of the Vernon Land Records.
10. Variance dated 8/24/1986 and recorded in Volume 586 at Page 125 of the Vernon Land Records.
11. Hold Harmless Agreement in favor of the Town of Vernon dated 7/13/1988 and recorded in Volume 708 at Page 263 of the Vernon Land Records.
12. Consent Order Modification by the State of Connecticut Department of Environmental Protection dated 7/19/1988 and recorded in Volume 711 at Page 199 of the Vernon Land records.
13. Certificate of Dam Construction Permit by the State of Connecticut Department of Environmental Protection recorded 8/10/1989 in Volume 761 at Page 150 of the Vernon Land Records.
14. Special permit dated 9/27/1989 and recorded in Volume 769 at Page 143 of the Vernon Land Records.
15. Consent Order by the State of Connecticut Department of Environmental Protection dated 11/6/1990 and recorded in Volume 815 at Page 275 of the Vernon Land Records.
16. Notice of Site Plan Modification and Special Permit Approval by the Vernon Planning and Zoning Commission dated 5/23/2006 and recorded in Volume 1835 at Page 332 of the Vernon Land Records. (See also Maps 4930, 4931 and 4932).
17. Special permit dated 6/9/2006 and recorded in Volume 1835 at Page 336 of the Vernon Land Records.
18. Notification of High Hazard Dam by the State of Connecticut Department of Environmental Protection dated 9/28/2007 and recorded in Volume 1954 at Page 81 of the Vernon Land Records.
19. Notice of Lease from Brooklyn East Main, LLC to PA Rockville, LLC dated 3/31/2016 and recorded in Volume 2443 at Page 78 of the Vernon Land Records.
20. Notes and conditions as shown on Maps filed in the Vernon Land Records as Maps 2245, 2246, 2247, 2248, 2249, 2250, 2566 and 2567.
21. Possible riparian rights of others in and to the Hockanum River.
22. Declaration of Environmental Land Use Restriction and Grant of Easement from Brooklyn East Main, LLC to the Commissioner of Energy & Environmental Protection of the State of Connecticut dated 6/27/2018 and recorded in Volume 2566 at Page 100 of the Vernon Land Records.

This is to also certify that all interests in the land have been irrevocably subordinated to the Declaration of Environmental Land Use Restriction and Grant of Easement at 2566/100, or the Connecticut Department of Energy & Environmental Protection has approved the waiver from said subordination agreements.

Eban Burns, Esq.
19 Cumberland Street
Hartford, CT 06106
(860) 953-5442

SCHEDULE "A"

A certain piece or parcel of land, together with the buildings and improvements thereon, situate, lying and being in the Town of Vernon, County of Tolland and State of Connecticut, and being more particularly bounded and described as follows:

Beginning at a point marked by a chisel cut in a stone wall on the southerly line of East Main Street, which point marks the northeast corner of land now or formerly of Henry C. Dowding and the northwest corner of the premises herein described; thence S. 89° 28' E., 164.5 feet along the southerly line of East Main Street to a drill hole in a masonry wall; thence S. 89° 41' E., 143.6 feet still along said southerly line of East Main Street to the northwest corner of land now or formerly of Samuel N. Kaplin, et al; thence along land now or formerly of said Kaplin et al three courses as follows: (1) S. 01° 19' E., 50.0 feet, (2) S. 89° 37' E., 19.57 feet, (3) N. 00° 19' E., 20 feet to the southwest corner of land now or formerly of The Double B. Products Co., Inc.; thence along land now or formerly of said The Double B. Products Co., Inc., seven courses as follows: (1) S. 89° 41' E., 93.6 feet, (2) S. 06° 41' W., 32.2 feet, (3) S. 89° 07' E., 79.1 feet, (4) S. 62° 49' E., 35.0 feet, (5) S. 27° 11' W., 11.9 feet, (6) S. 62° 49' E., 12.0 feet, (7) S. 28° 45' W., 47.5 feet; thence along land now or formerly of the American Dyeing Corporation S. 69° 30' W., 130.5 feet to a chisel cut on a wall on the southerly bank of the pond; thence still along land now or formerly of said American Dyeing Corporation, S. 11° 09' W., 220.4 feet, to the west face of a stone base of a fence post on the northerly line of Brooklyn Street; thence N. 88° 04' W., 184.2 feet, along said northerly line of Brooklyn Street to a drill hole in a wall; thence N. 88° 16' W., 342.9 feet along said northerly line of Brooklyn Street to the southerly of two gate posts; thence along land of The New York New Haven & Hartford Railway Co. seven courses as follows: (1) N. 07° 43' W. 125.5 feet, (2) N. 67° 16' E., 96.2 feet, (3) N. 89° 07' E., 24.1 feet, (4) N. 76° 38' E., 82.2 feet, (5) N. 89° 45' E., 82.0 feet (6) N. 00° 06' E., 52.7 feet, (7) N. 86° 08' W., 80.0 feet more or less to the southeast corner of land now or formerly of Sunline Incorporated; thence N. 00° 53' E., 45.44 feet along said land now or formerly of Sunline Incorporated to the southeast corner of said land now or formerly of Henry C. Dowding; thence N. 00° 53' E., 100.4 feet along land now or formerly of Henry C. Dowding to the point and place of beginning.

Excepting therefrom:

A certain piece or parcel of land with the building and improvements thereon, situated in the Town of Vernon, County of Tolland and State of Connecticut bounded and described as follows:

Beginning at a point in the generally northerly line of Brooklyn Street which said point marks the southeast corner of the premises herein described and the southwest corner of land now or formerly known of Amerbelle Corporation. Thence in the generally northerly line of Brooklyn Street S 79° 47' 40" W a distance of 40.00 feet to a point in line of other land now or formerly of Howard A. Fromsom, thence N 09° 06' 20" E a distance of 230.48 feet to a point, thence S 00° 45" 07" E in line of land now or formerly of Amerbelle Corporation a distance of 220.50 feet to the point and place of beginning. Said premises are shown and designated as "Parcel to be acquired from Howard A. Fromson 4,350. S.F. 0.10 Acres" on a map or plan entitled "Plan of land prepared for Amerbelle Corporation Vernon, Connecticut Garner & Peterson Associates

continued

178 Hartford Turnpike Tolland, Connecticut Professional Engineers Land Surveyors by D.T.S. Scale 1" = 40' date 3-17-95 Sheet No. 1 of 1 Map No. 9282B Revisions 3-31-95, 4-10-95, 4-20-95, 5-17-95, 5-26-95", which map or plan is on file in the Town Clerk's Office in said Town of Vernon.

And also excepting any portion of land conveyed to Anocoil Corporation by deed dated December 21, 2004 and recorded January 12, 2005 in Volume 1702 at Page 203 of the Vernon land Records.

2017010031077

GENERAL DATA REAL ESTATE TOWN OF VERNON

AS OF 07/05/2018

BILL NO:	2017-01-0031077	ORIGINAL OWNER:	BROOKLYN EAST MAIN LLC
UNIQUE ID:	40011700004	C/O:	C/O HOWARD FROMSON
LINK#		ADDRESS:	1 GOLD ST APT 14C
FILE#		ADDRESS2:	
BANK:		CITY ST ZIP:	HARTFORD CT 06103
ESCROW:		COUNTRY:	
VOL/PAGE:	2443-76	PROP LOC.:	40 BROOKLYN ST
LIEN VOL/PAGE:		EXR PROP LOC:	
DISTRICT:		M/B/L:	40-0117-00004
/ BACK TAXES			
PROP ASSESSED:	524,620	ELD CODE:	0
EXEMPTIONS:		EXMPT CHANGE:	
COC CHANGE:			
NET VALUE:	524,620		
MILL RATE:	39.6300		

2017

***** BILLED *****

	TOWN	TOTALS
INST1:	10,395.35	10,395.35
INST2:	10,395.35	10,395.35
INST3:	0.00	0.00
INST4:	0.00	0.00
ADJS:	0.00	0.00
TOT TAX:	20,790.70	20,790.70
TOTAL PAID:	0.00	0.00

***** PAYMENTS *****

TYPE	CYCLE	DATE	ADJ	TERM/BATCH/SEQ	INST	AMOUNT	INTEREST	LIENS	FEES	TOTALS

TOTAL PAYMENTS:

TOTAL BALANCE DUE AS OF 07/05/2018

	TOWN
INT DUE:	0.00
LIEN DUE:	0.00
FEES DUE:	0.00
TAX DUE NOW:	10,395.35
TOT DUE NOW:	10,395.35
BALANCE DUE:	20,790.70

***** FLAGS *****

Circuit Breaker Amount: 0 Benefit Year: 0

Invalid Address Flag No

CERTIFICATE OF TITLE

FROM Eban Burns, Esq.

TO Commissioner of Energy and Environmental Protection
State of Connecticut
79 Elm Street
Hartford, CT 06106

and Murtha Cullina LLP
CityPlace I
185 Asylum Street
Hartford, CT 06103-3469

DATE July 3, 2018

This is to certify that after an examination of the land records, as indexed, of the Town of Vernon, County of Hartford and State of Connecticut to the date hereof, I am of the opinion that **Rockville East Main Corporation** is the owner of the marketable fee simple title of record to the property located at **1 Court Street**, and bounded and described as follows:

SEE SCHEDULE A

Being the same premises acquired by the present owner by Quitclaim Deed from Howard A. Fromson to Anocoil Corporation dated 12/21/2004 and recorded 1/12/05 in Volume 1702 at Page 203 of the Vernon Land Records. See Certificate of Change of Name, Anocoil Corporation to Rockville East Main Corporation dated 6/29/2017 and recorded in Volume 2511 at Page 222 of the Vernon Land Records.

Said premises are free and clear of all properly indexed encumbrances EXCEPT:

1. Any and all provisions of any ordinance, municipal or other governmental regulation or public or private law.
2. Real estate taxes to the Town of Vernon on the Grand List of October 1, 2018 and subsequent lists, not yet due and payable. Real estate taxes on the 2016 list are paid in full. Real estate taxes on the 2017 list, July 2018 ½ not paid, not delinquent, please see tax statement.
3. Sewer use charges to the Town of Vernon, please call (860) 870-3699.
4. Water use charges to the Connecticut Water Company,
5. Any facts that an accurate survey or personal inspection of said premises might disclose.
6. Rights of present lessees, tenants or persons or parties in possession.
7. Any lien, or right to a lien, for labor, services or materials furnished within the past ninety days for which no certificate of lien has been recorded.
8. Possible riparian rights of others in and to the Hockanum River.

9. Drainage, sewer, conduit for the Hockanum River, easements, covenants, restrictions and agreements in deed dated 5/22/1968 and recorded in Volume 179 at Page 731 of the Vernon Land Records; as modified by Quit Claim Release Deed dated 9/20/2013 and recorded in Volume 2312 at Page 35 of the said land records; subordinated to the Declaration of Environmental Land Use Restriction and Grant of Easement at 2565/225 by Subordination Agreement by the Town of Vernon dated 6/26/2018 and recorded In Volume 2565 at Page 219 of the said land records.
10. Fifth Covenant in Assignment of Contract from the Town of Vernon, acting by and through the Redevelopment Agency, to Alco Professional Building Corp. dated 2/28/1969 and recorded in Volume 179 at Page 737 of the Vernon Land Records.
11. Certificate of Completion of Improvements by the Vernon Redevelopment Agency dated 4/20/1970 and recorded in Volume 186 at Page 189 of the Vernon Land Records.
12. Grant of variance by the Vernon Zoning Board of Appeals dated 10/2/1979 and recorded in Volume 369 at Page 311 of the Vernon Land Records.
13. Certificate of Approval by the State of Connecticut Department of Environmental Protection recorded 10/13/1982 in Volume 440 at Page 121 of the Vernon Land Records.
14. Notice of variance by the Vernon Zoning Board of Appeals dated 2/4/1986 and recorded in Volume 552 at Page 203 of the Vernon Land Records.
15. Notice of grant of variance by the Vernon Zoning Board of Appeals recorded 2/4/1986 in Volume 552 at Page 204 of the Vernon Land Records; corrected by Corrected Variance Notice recorded 3/19/1986 in Volume 556 at Page 199 of the said land records.
16. Notes and conditions shown on Map 662 filed in the Vernon Land Records.
17. Notice of Lease from Anocoil Corporation to PA Rockville, LLC dated 3/31/2016 and recorded in Volume 2443 at Page 68 of the Vernon Land Records.
18. Declaration of Environmental Land Use Restriction and Grant of Easement from Rockville East Main Corporation to the Commissioner of Energy & Environmental Protection of the State of Connecticut dated 6/27/2018 and recorded in Volume 2565 at Page 225 of the Vernon Land Records.

This is to also certify that all interests in the land have been irrevocably subordinated to the Declaration of Environmental Land Use Restriction and Grant of Easement recorded at 2565/225.

Eban Burns, Esq.
19 Cumberland Street
Hartford, CT 06106
(860) 953-5442

SCHEDULE "A"

A certain piece or parcel of land situated in the Town of Vernon, County of Tolland and State of Connecticut, known as Parcel No. 3 on a map or plan entitled "Vernon Redevelopment Agency Final Disposition Map Downtown Business Area Renewal Project Cahn Engineers- Consulting Engineers, New Haven, New Britain, Connecticut Date: Jan. 1968 Rev. Jan., 1968 Scale 1" = 50' I hereby certify that this map is substantially correct William O. Doll Civil Engineer No. 5646", which map is on file in the Vernon Town Clerk's Office. Said Parcel No. 3 is more particularly bounded and described as follows:

Beginning at a point in the apparent general southerly line of East Main Street, said point being the northeasterly corner of the premises herein described and said point bearing coordinates N 376, 999.64 E682, 870.59 on the Connecticut Geodetic Grid System; thence from said point of beginning S 79° 13' 59" W., 164.28 feet along said road line to a point; thence westerly and southerly on an arc of a curve having a radius of 30 feet, 47.12 feet to a point in the apparent general easterly line of Court Street; thence S 10° 46' 01" E, 213.87 feet along said Court Street to a point marked by a monument in line of land now or formerly of Antoinette Realty Inc.; thence N 53° 58' 40" E., 83.75 feet to a point; thence N 67° 36' 33" E., 40.27 feet to a point; thence N 65° 39' 46" E, 79.65 feet to a point, thence N 78° 23' 41" E, 82.00 feet to a point, thence N 11° 27' 19" W, 52.79 feet to a point; thence S 82° 18' 41" W, 80.00 feet to a point; thence N 10° 40' 19" W, 123.05 feet to the point and place of beginning. The last seven (7) courses being along land now or formerly of Antoinette Realty, Inc.

2017010037619

GENERAL DATA REAL ESTATE TOWN OF VERNON

AS OF 07/05/2018

BILL NO:	2017-01-0037619	ORIGINAL OWNER:	ROCKVILLE EAST MAIN CORPORATION
UNIQUE ID:	40011700003	C/O:	
LINK#		ADDRESS:	ONE GOLD ST APT 14C
FILE#		ADDRESS2:	
BANK:		CITY ST ZIP:	HARTFORD CT 00000
ESCROW:		COUNTRY:	
VOL/PAGE:	2511-222	PROP LOC.:	1 COURT ST
LIEN VOL/PAGE:		EXR PROP LOC:	
DISTRICT:		M/B/L:	40-0117-00003
/ BACK TAXES			
PROP ASSESSED:	142,800	ELD CODE:	0
EXEMPTIONS:		EXMPT CHANGE:	
COC CHANGE:			
NET VALUE:	142,800		
MILL RATE:	39.6300		

***** BILLED *****

	TOWN	TOTALS
INST1:	2,829.58	2,829.58
INST2:	2,829.58	2,829.58
INST3:	0.00	0.00
INST4:	0.00	0.00
ADJS:	0.00	0.00
TOT TAX:	5,659.16	5,659.16
TOTAL PAID:	0.00	0.00

***** PAYMENTS *****

TYPE	CYCLE	DATE	ADJ	TERM/BATCH/SEQ	INST	AMOUNT	INTEREST	LIENS	FEES	TOTALS

TOTAL PAYMENTS:

TOTAL BALANCE DUE AS OF 07/05/2018

	TOWN
INT DUE:	0.00
LIEN DUE:	0.00
FEES DUE:	0.00
TAX DUE NOW:	2,829.58
TOT DUE NOW:	2,829.58
BALANCE DUE:	5,659.16

***** FLAGS *****

Circuit Breaker Amount: 0 Benefit Year: 0

Invalid Address Flag No

FUSS & O'NEILL

Appendix K

Limitations of Work Product

FUSS & O'NEILL

LIMITATIONS OF WORK PRODUCT

This document was prepared for the sole use of Rockville East Main Corporation the only intended beneficiaries of our work. Those who may use or rely upon the report and the services (hereafter "work product") performed by Fuss & O'Neill, Inc. and/or its subsidiaries or independent professional associates, subconsultants and subcontractors (collectively the "Consultant") expressly accept the work product upon the following specific conditions.

1. Consultant represents that it prepared the work product in accordance with the professional and industry standards prevailing at the time such services were rendered.

2. The work product may contain information that is time sensitive. The work product was prepared by Consultant subject to the particular scope limitations, budgetary and time constraints and business objectives of the Client which are detailed therein or in the contract between Consultant and Client. Changes in use, tenants, work practices, storage, Federal, state or local laws, rules or regulations may affect the work product.

3. The observations described and upon which the work product was based were made under the conditions stated therein. Any conclusions presented in the work product were based solely upon the services described therein, and not on scientific or engineering tasks or procedures beyond the scope of described services.

4. In preparing its work product, Consultant may have relied on certain information provided by state and local officials and information and representations made by other parties referenced therein, and on information contained in the files of state and/or local agencies made available at the time of the project. To the extent that such files which may affect the conclusions of the work product are missing, incomplete, inaccurate or not provided, Consultant is not responsible. Although there may have been some degree of overlap in the information provided by these various sources, Consultant did not attempt to independently verify the accuracy or completeness of all information reviewed or received during the course of this project. Consultant assumes no responsibility or liability to discover or determine any defects in such information which could result in failure to identify contamination or other defect in, at or near the site. Unless specifically stated in the work product, Consultant assumes no responsibility or liability for the accuracy of drawings and reports obtained, received or reviewed.

5. If the purpose of this project was to assess the physical characteristics of the subject site with respect to the presence in the environment of hazardous substances, waste or petroleum and chemical products and wastes as defined in the work product, unless otherwise noted, no specific attempt was made to check the compliance of present or past owners or operators of the subject site with Federal, state, or local laws and regulations, environmental or otherwise.

6. If water level readings have been made, these observations were made at the times and under the conditions stated in the report. However, it must be noted that fluctuations in

water levels may occur due to variations in rainfall, passage of time and other factors and such fluctuations may affect the conclusions and recommendations presented herein.

7. Except as noted in the work product, no quantitative laboratory testing was performed as part of the project. Where such analyses have been conducted by an outside laboratory, Consultant has relied upon the data provided, and unless otherwise described in the work product has not conducted an independent evaluation of the reliability of these tests.

8. If the conclusions and recommendations contained in the work product are based, in part, upon various types of chemical data, then the conclusions and recommendations are contingent upon the validity of such data. These data (if obtained) have been reviewed and interpretations made by Consultant. If indicated in the work product, some of these data may be preliminary or screening-level data and should be confirmed with quantitative analyses if more specific information is necessary. Moreover, it should be noted that variations in the types and concentrations of contaminants and variations in their flow paths may occur due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

9. Chemical analyses may have been performed for specific parameters during the course of this project, as described in the work product. However, it should be noted that additional chemical constituents not included in the analyses conducted for the project may be present in soil, groundwater, surface water, sediments or building materials at the subject site.

10. Ownership and property interests of all documents, including reports, electronic media, drawings and specifications, prepared or furnished by Consultant pursuant to this project are subject to the terms and conditions specified in the contract between the Consultant and Client, whether or not the project is completed.

11. Unless otherwise specifically noted in the work product or a requirement of the contract between the Consultant and Client, any reuse, modification or disbursement of documents to third parties will be at the sole risk of the third party and without liability or legal exposure to Consultant.

12. In the event that any questions arise with respect to the scope or meaning of Consultant's work product, immediately contact Consultant for clarification, explanation or to update the work product. In addition, Consultant has the right to verify, at the party's expense, the accuracy of the information contained in the work product, as deemed necessary by Consultant, based upon the passage of time or other material change in conditions since conducting the work.

13. Any use of or reliance on the work product shall constitute acceptance of the terms hereof.