TRC
1430 Broadway, 10th Floor
New York, New York, 10018

Main 212.221.7822
Fax 212.221.7840

Transmittal

To: Anna Ciecierska
IEH Division
New York City School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101-3045
(718) 752-5609

Date: January 4, 2016

TRC No: 246897.0000.0000

Project: PS 38Q
135-21 241st Street
Queens, New York
LLW #: 094576
IEH #: 63298

We have enclosed:

☐ B/W Prints ☐ Reproducible ☐ Reports ☐ Letter

☐ Specifications ☐ Memorandum X Contractor Submittals

Description	Rev. #	Date
Waste Characterization Data Received No Action Taken		

Sent Via:

☐ Messenger ☐ 1st Class Mail ☐ FedEx [Type] X Email

Copy to: P. Sherwood (IEH)

Very truly yours,
TRC

Kevin Boger

TRC Engineers, Inc. (TRC) has reviewed the waste characterization data and backfill letter submitted for PS 38Q. The submittal was prepared by AMC Engineering, PLLC. for Venus Group, Inc. and was received electronically by TRC on December 23, 2015. Please find TRC's comments to the submittal below.

Based on a review of the submittal, TRC has the following comments:

1. The material at the site meets the definition of non-hazardous excavated material (NHEM) as defined in Specification Section 02200, Article 1.04(C).

2. Please note that Durante Bros. Construction Corp. is not approved to receive material from the PS 38Q site.

3. A letter from the proposed disposal facility accepting the onsite material must be submitted prior to transporting any excavated material offsite.

The Waste Characterization Data has been stamped "received no action taken".

The comments should not be construed in any way as intent to limit the Contractor's responsibilities. The absence of a comment with respect to a specific Contract requirement should not be interpreted as a suggestion to change a Contract requirement.

AMC Engineering, PLLC
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753
516.417.8588
Fax 516 706-3214

Sampling Event
PS 38Q
135-21 241 Street, Queens, NY 11412

SHOP DRAWING REVIEW

	Date	Reviewer
___ Approved		
___ Approved-as-Noted		
___ Revise [illegible]		
X Rece[illegible]	12/29/15	KB
___ Rejected		

Engineer's review is [illegible] accept and [illegible] documents. [illegible] relieving the contractor from compliance with [illegible] nor departures there from. The contractor remains responsible for details and accuracy, for confirming and correlating all quantities and dimensions, for selecting fabrication process, for techniques of assembly, and performing the work in a safe manner and in accordance with all applicable codes.

TRC ENGINEERS, INC.

Prepared for:
Venus Group Inc.
97-06 117th Street
Richmond Hill, NY 11419

Prepared for:
New York City Schools Construction Authority
3030 Thomson Avenue
Long Island City, NY 11101

Prepared by:
AMC Engineering, PLLC
99 Jericho Turnpike, Suite 300J
Jericho, NY 11753
Phone: (516) 417-8588

November 24, 2015

Venus Group, Inc.

General Contractor/ Construction Services

TRANSMITTAL LETTER

To: New York School Construction Authority
30-30 Thomson Avenue
Long Island City, NY 11101

Attn: MR. Paul Shewood

Ph.:

Date:	12/23/2015
School	PS038Q
Project	TCU Removal & Play Ground Redevelopment
Expedition Proj Name	PS038Q03
Contract #	*C000014035*
Design # / LLW #	D016608, '094576
P.O.	Shaul Faena
A/E Reviewer	
☐ Resubmission	
Original SCA Submittal #	

We are sending you by: E-Mail the below listed items.

LIST OF ITEMS SUBMITTED

** Each item to be submitted separately by spec number.*

# of items	Type	Spec Section	Description	Previous Submittal No. (if applicable) [1]	Per Spec/ Basis of Design[2]	"or Equal" Substitut/ non-basis of Design[3]	"Alternate" Substitut[4]
			Sampling Report		x		
			Disposal facilityacceptance letter				
			Imported clean fill certification letter				

Comments:

Submitted by: Dharmbir Singh **Date:** 12/23/2015

Received by: _____ **Date:** _____

Print Name: _____

[1] If item listed is a resubmittal, please reference the previous submittal number.

[2] Item is listed in specification or for items listed on Drawing is the Basis of Design

[3] Item is being submitted as an Equal product to that specified or is different than the Basis of Design (whether manufacturer is included in the spec or not)

[4] Item is an alternate substitution - Does not match material specified

97-06 117th Street, Richmond Hill, NY 11419 Tel: 347-480-5450 Fax: 347-480-5451 E-mail: info@venusgroupinc.com

Durante Bros. Construction Corp.
31-40 123rd Street
Flushing, N.Y. 11354
(718) 762-2500 phone
(718) 762-2707 fax

12/23/15

To whom it may concern,

Durante Bros. operates a Clean Fill Transfer Station located at 31-40 123rd street in Flushing Queens NY. Our facility is regulated by DSNY and NYSDEC and operates under DSNY Permit # 1 and DEC registration # 41W22. Durante Bros. adheres to all regulations for both agencies and obeys a strict protocol for the acceptance of clean fill at our facility. Durante Bros. produces environmentally safe fill material.

Very Truly Yours,

Louis J. Durante

AMC Engineering, PLLC
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753
516.417.8588
Fax 516 706-3214

Sampling Event
PS 38Q
135-21 241 Street, Queens, NY 11412

Prepared for:
Venus Group Inc.
97-06 117th Street
Richmond Hill, NY 11419

Prepared for:
New York City Schools Construction Authority
3030 Thomson Avenue
Long Island City, NY 11101

Prepared by:
AMC Engineering, PLLC
99 Jericho Turnpike, Suite 300J
Jericho, NY 11753
Phone: (516) 417-8588

November 24, 2015

Summary

On November 16, 2015, AMC Engineering PLLC mobilized onsite to retain soil samples from the areas to be excavated. The areas of excavation include the proposed excavation located as depicted on the attached Appendix A.

Soil samples were collected from exposed soil and obtained with a sampling tool between six to twelve inches below grade. Samples were continuously monitored in-situ with a MiniRAE2000 Portable Photo-Ionization Detector. There were no PID readings detected, nor any strong odors.

Samples were formed as follows:

1) Formed one 5-Point Composite Soil Samples from five (5) grabs from excavated soil samples. The 5-pt composite soil sample was analyzed for the following:

    - TCLP Metals (Toxicity Characteristic Leaching Procedure for RCRA metals, EPA 1311/6010)
    - RCRA hazardous waste characteristics (Ignitability, Reactivity, Corrosivity, pH;
    - TAL Metals – *EPA Method 6010;*
    - Polychlorinated Biphenyls (PCBs) – *EPA Method 8082A*;
    - Pesticides and Herbicides – *EPA Method 8081A;*
    - Paint Filter
    - Semi-Volatile Organic Compounds (SVOCs) – *EPA Method 8270*
    - Total Petroleum Hydrocarbons (TPH) – *EPA Method 8015M*

2) Retained one (1) grab soil sample from 12 inches below grade. The grab soil sample was analyzed for the following:

    - Volatile Organic Compounds (VOCs) – *EPA Method 8260.*

Quality Control of Samples

Soil samples were retained in laboratory supplied/cleaned glassware and tracked from laboratory issuance through laboratory receipt of samples using a Chain of Custody. The sample containers were properly labeled and documented on the Chain of Custody and within the bound log book, placed in a zip-lock plastic bag and placed in a cooler with ice to maintain a temperature of 4° C.

Samples were picked up by a Phoenix sample courier on November 17, 2015. Courier service is provided by a laboratory employee. Sample receipt by the laboratory shall be considered as signed receipt by the laboratory courier.

Sample analysis was performed by Phoenix Environmental Laboratories, Inc. (Phoenix), a New York State ELAP certified environmental laboratory (NY Lab ID # 11301) and State of New Jersey Department of Environmental Protection Certified Laboratory (Certification ID # CT003).

Results

The laboratory results of the soil samples were compared to NY Part 375-6 Soil Cleanup Objectives. All analytes fell below the Unrestricted Use Soil Cleanup Objectives (UUSCO) and Protection of Groundwater Standards (GWP), with the exception of the following analytes:

- Mercury: measured 0.20 ppm (UUSCO criteria is 0.18 ppm)
- Zinc: measured 114 ppm (UUSCO criteria is 109 ppm)

All analytes fell below the GWP and the Residential Use Soil Cleanup Objectives criteria.

The soil as tested met definition of Non-Hazardous Excavated Material (NHEM), as defined in Specification Section 02201 Earthwork and the approved EMDP.

Based on laboratory results, the material to be excavated for the new control and expansion joints meets the requirements for disposal at:

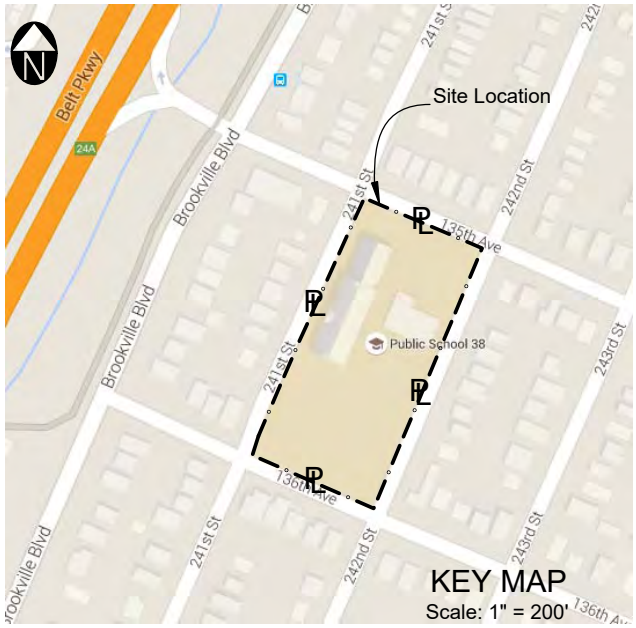
- 110 Sand Company Clean Fill Disposal Site; and
- Clean Earth of Carteret; and
- Other NYCRR Part 360 facility(ies) upon approval by the Authority.

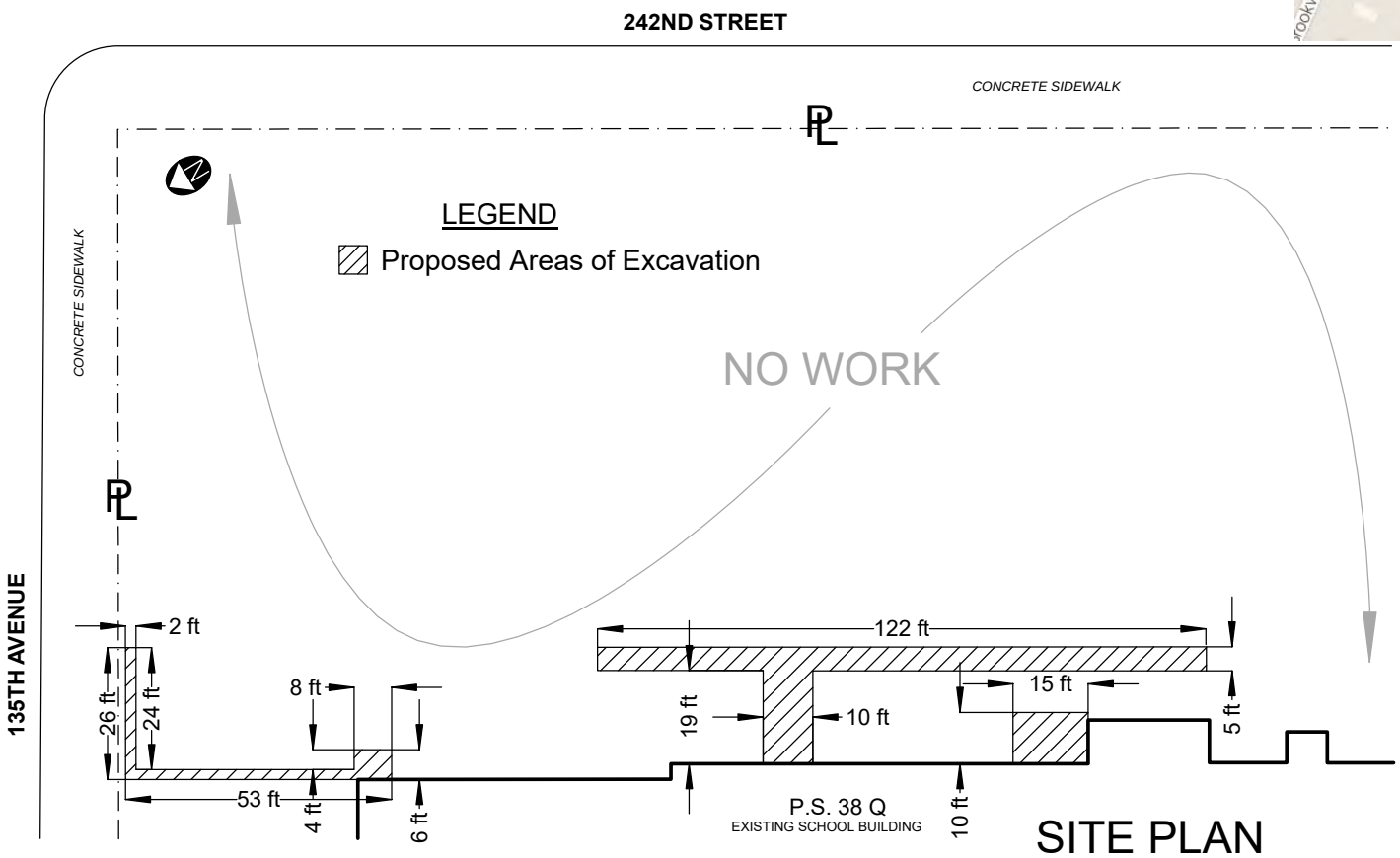
Appendices

A: Site Plan and Sampling Plan
B: Soil Testing Results in Excel Format
C: Soil Testing Results from ELAP Certified Environmental Laboratory (official report)

Appendix A: Site Plan and Sampling Plan

Calculation of Excavated Materials				
Name	**Total Area (sq. ft.)**	**Depth (ft)**	**Volume (yd^3)**	**20% Error Margin**
New Joints / Expansion	1136.00	1.00	42.07	50
Total Materials (yd^3)	**50**			





AMC ENGINEERING PLLC
99 JERICHO TURNPIKE
JERICHO, NY 11753
(516) 417-8588

PROJECT

PS 38Q
135-21 241 Street
Queens, NY 11412

TITLE:

FIGURE 1
SITE PLAN

SEAL & SIGNATURE:

DATE: OCT 23, 2015
PROJECT No:
DRAWING BY: AS
CHK BY:
DWG No:

CADO FILE No: 5

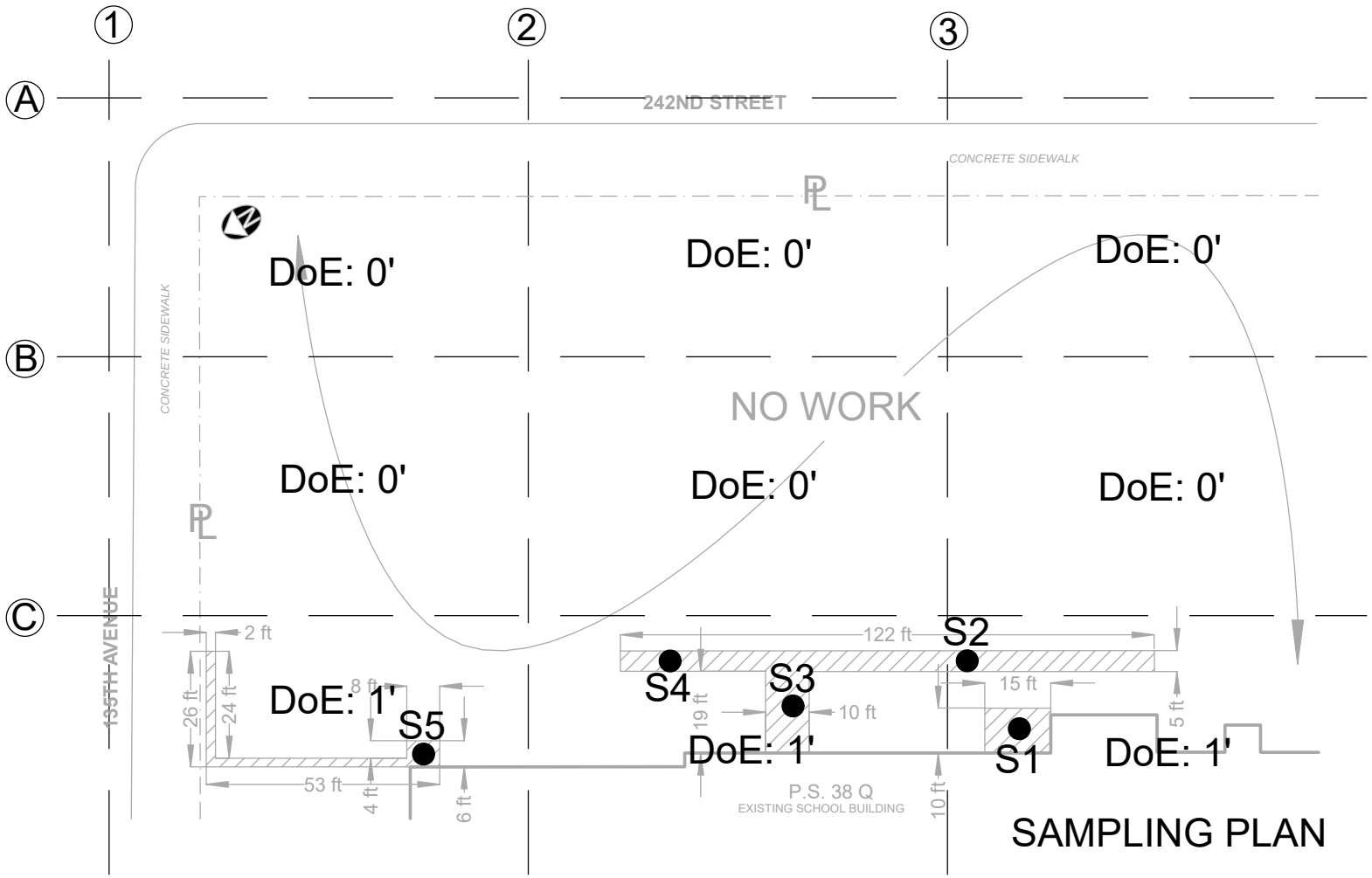
Sampling Summary			
Sample	**5-pt comp (C1+TPH)**	**VOC grab**	**Depth of Sample**
S1	X		6"
S2	X		9"
S3	X	X	12"
S4	X		6"
S5	X		8"

LEGEND

Proposed Areas of Excavation

Sampling Locations

DoE: Depth of Excavation



AMC ENGINEERING PLLC
99 JERICHO TURNPIKE
JERICHO, NY 11753
(516) 417-8588

PROJECT

PS 38Q
135-21 241 Street
Queens, NY 11412

TITLE:

FIGURE 2
WASTE CHARACTERIZATION
SAMPLING PLAN

SEAL & SIGNATURE:

DATE: OCT 23, 2015
PROJECT No:
DRAWING BY: AS
CHK BY:
DWG No:

CADO FILE No: 6

2 of 2

Appendix B: Soil Testing Results in Excel Format

Phoenix Environmental Laboratories, Inc.											
587 East Middle Turnpike											
P.O. Box 370	Lab Sample Id							BK24117		BK24119	
Manchester, CT 06040	Collection Date							11/16/2015		11/16/2015	
(860) 645-1102	Client Id							C1		TPH1	
	Matrix							Solid		Solid	
Project Id : PS 38Q											
	CAS	Units	40 CFR 261.24	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL
Miscellaneous/Inorganics											
Percent Solid	PHNX - PCTSOLID	%						91		90	
Corrosivity	PHNX - CORROSIVITY	Pos/Neg						Negative			
Flash Point	PHNX - FLASH POINT	Degree F						>200	200		
Ignitability	PHNX - IGNITABILITY	degree F						Passed	140		
pH - Soil	PHNX - PH	pH Units						6.97	0.10		
Reactivity Cyanide	PHNX - REACT CYANIDE	mg/Kg						< 5.3	5.3		
Reactivity Sulfide	PHNX - REACT SULFIDE	mg/Kg						< 20	20		
Reactivity	PHNX - REACTIVITY	Pos/Neg						Negative			
Total Sulfide	18496-25-8	mg/Kg						12.8	11.0		
Total Cyanide (SW9010C Distill.)	57-12-5	mg/Kg		40	27	27	27	< 0.55	0.55		
Metals, Total											
Aluminum	7429-90-5	mg/Kg						9,090	53		
Antimony	7440-36-0	mg/Kg						< 3.5	3.5		
Arsenic	7440-38-2	mg/Kg		16	16	16	13	12.3	0.7		
Barium	7440-39-3	mg/Kg		820	350	400	350	39.3	0.35		
Beryllium	7440-41-7	mg/Kg		47	14	72	7.2	0.33	0.28		
Cadmium	7440-43-9	mg/Kg		7.5	2.5	4.3	2.5	< 0.35	0.35		
Calcium	7440-70-2	mg/Kg						772	5.3		
Chromium	7440-47-3	mg/Kg					30	14.2	0.35		
Cobalt	7440-48-4	mg/Kg						4.37	0.35		
Copper	7440-50-8	mg/kg		1,720	270	270	50	10	0.35		
Iron	7439-89-6	mg/Kg						12,300	53		
Lead	7439-92-1	mg/Kg		450	400	400	63	28.4	0.35		
Magnesium	7439-95-4	mg/Kg						1,050	5.3		
Manganese	7439-96-5	mg/Kg		2,000	2,000	2,000	1,600	267	3.5		
Mercury	7439-97-6	mg/Kg		0.73	0.81	0.81	0.18	0.2	0.03		
Nickel	7440-02-0	mg/Kg		130	140	310	30	9.32	0.35		
Potassium	9/7/7440	mg/Kg						562	5.3		
Selenium	7782-49-2	mg/Kg		4	36	180	3.9	< 1.4	1.4		
Silver	7440-22-4	mg/Kg		8.3	36	180	2	< 0.35	0.35		
Sodium	7440-23-5	mg/Kg						87.1	5.3		
Thallium	7440-28-0	mg/Kg						< 3.2	3.2		
Vanadium	7440-62-2	mg/Kg						18.3	0.35		
Zinc	7440-66-6	mg/Kg		2,480	2,200	10,000	109	114	0.35		
Metals, TCLP											
TCLP Arsenic	7440-38-2	mg/L	5					< 0.10	0.10		
TCLP Barium	7440-39-3	mg/L	100					0.29	0.10		
TCLP Cadmium	7440-43-9	mg/L	1					< 0.050	0.050		
TCLP Chromium	7440-47-3	mg/L	5					< 0.10	0.10		
TCLP Lead	7439-92-1	mg/L	5					< 0.10	0.10		
TCLP Mercury	7439-97-6	mg/L	0.2					< 0.0002	0.0002		
TCLP Selenium	7782-49-2	mg/L	1					< 0.10	0.10		
TCLP Silver	7440-22-4	mg/L	5					< 0.10	0.10		
TPH By 8015D DRO											
Diesel Range Organics (C10-C28)	PHNX - DRO	mg/Kg								< 54	54

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Phoenix Environmental Laboratories, Inc.									
587 East Middle Turnpike									
P.O. Box 370	Lab Sample Id							BK24118	
Manchester, CT 06040	Collection Date							11/16/2015	
(860) 645-1102	Client Id							GR1	
	Matrix							Solid	
Project Id : PS 38Q									
	CAS	Units	40 CFR 261.24	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL
Volatiles By SW8260C									
1,1,1,2-Tetrachloroethane	630-20-6	ug/Kg						< 21	21
Acrolein	107-02-8	ug/Kg						< 21	21
Acrylonitrile	107-13-1	ug/Kg						< 21	21
Tert-butyl alcohol	75-65-0	ug/Kg						< 100	100
Volatiles (TCL) By SW8260C									
1,1,1-Trichloroethane	71-55-6	ug/kg		680	100,000	100,000	680	< 5.2	5.2
1,1,2,2-Tetrachloroethane	79-34-5	ug/kg						< 5.2	5.2
1,1,2-Trichloroethane	79-00-5	ug/kg						< 5.2	5.2
1,1-Dichloroethane	75-34-3	ug/kg		270	19,000	26,000	270	< 5.2	5.2
1,1-Dichloroethene	75-35-4	ug/kg		330	100,000	100,000	330	< 5.2	5.2
1,2,3-Trichlorobenzene	87-61-6	ug/kg						< 5.2	5.2
1,2,4-Trichlorobenzene	120-82-1	ug/kg						< 5.2	5.2
1,2-Dibromo-3-chloropropane	96-12-8	ug/kg						< 5.2	5.2
1,2-Dibromoethane	106-93-4	ug/kg						< 5.2	5.2
1,2-Dichlorobenzene	95-50-1	ug/kg		1,100	100,000	100,000	1,100	< 5.2	5.2
1,2-Dichloroethane	107-06-2	ug/kg		20	2,300	3,100	20	< 5.2	5.2
1,2-Dichloropropane	78-87-5	ug/kg						< 5.2	5.2
1,3-Dichlorobenzene	541-73-1	ug/kg		2,400	17,000	49,000	2,400	< 5.2	5.2
1,4-Dichlorobenzene	106-46-7	ug/kg		1,800	9,800	13,000	1,800	< 5.2	5.2
2-Hexanone	591-78-6	ug/kg						< 26	26
4-Methyl-2-pentanone	108-10-1	ug/kg						< 26	26
Acetone	67-64-1	ug/kg		50	100,000	100,000	50	< 50	50
Benzene	71-43-2	ug/kg		60	2,900	4,800	60	< 5.2	5.2
Bromochloromethane	74-97-5	ug/kg						< 5.2	5.2
Bromodichloromethane	75-27-4	ug/kg						< 5.2	5.2
Bromoform	75-25-2	ug/kg						< 5.2	5.2
Bromomethane	74-83-9	ug/kg						< 5.2	5.2
Carbon Disulfide	75-15-0	ug/kg						< 5.2	5.2
Carbon tetrachloride	56-23-5	ug/kg		760	1,400	2,400	760	< 5.2	5.2
Chlorobenzene	108-90-7	ug/kg		1,100	100,000	100,000	1,100	< 5.2	5.2
Chloroethane	75-00-3	ug/kg						< 5.2	5.2
Chloroform	67-66-3	ug/kg		370	10,000	49,000	370	< 5.2	5.2
Chloromethane	74-87-3	ug/kg						< 5.2	5.2
cis-1,2-Dichloroethene	156-59-2	ug/kg		250	59,000	100,000	250	< 5.2	5.2
cis-1,3-Dichloropropene	10061-01-5	ug/kg						< 5.2	5.2
Cyclohexane	110-82-7	ug/kg						< 5.2	5.2
Dibromochloromethane	124-48-1	ug/kg						< 5.2	5.2
Dichlorodifluoromethane	75-71-8	ug/kg						< 5.2	5.2
Ethylbenzene	100-41-4	ug/kg		1,000	30,000	41,000	1,000	< 5.2	5.2
Isopropylbenzene	98-82-8	ug/kg						< 5.2	5.2
m&p-Xylene	179601-23-1	ug/kg						< 5.2	5.2
Methyl ethyl ketone	78-93-3	ug/kg		120	100,000	100,000	120	< 31	31
Methyl t-butyl ether (MTBE)	1634-04-4	ug/kg		930	62,000	100,000	930	< 10	10
Methylacetate	79-20-9	ug/kg						< 4.1	4.1
Methylcyclohexane	108-87-2	ug/kg						< 5.2	5.2
Methylene chloride	75-09-2	ug/kg		50	51,000	100,000	50	< 5.2	5.2
o-Xylene	95-47-6	ug/kg						< 5.2	5.2
Styrene	100-42-5	ug/kg						< 5.2	5.2
Tetrachloroethene	127-18-4	ug/kg		1,300	5,500	19,000	1,300	< 5.2	5.2
Toluene	108-88-3	ug/kg		700	100,000	100,000	700	< 5.2	5.2
Total Xylenes	1330-20-7	ug/kg		1,600		100,000	260	< 5.2	5.2
trans-1,2-Dichloroethene	156-60-5	ug/kg		190	100,000	100,000	190	< 5.2	5.2
trans-1,3-Dichloropropene	10061-02-6	ug/kg						< 5.2	5.2
Trichloroethene	79-01-6	ug/kg		470	10,000	21,000	470	< 5.2	5.2
Trichlorofluoromethane	75-69-4	ug/kg						< 5.2	5.2
Trichlorotrifluoroethane	76-13-1	ug/kg						< 5.2	5.2
Vinyl chloride	75-01-4	ug/kg		20	210	900	20	< 5.2	5.2

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Phoenix Environmental Laboratories, Inc.											
587 East Middle Turnpike											
P.O. Box 370	Lab Sample Id							BK24117		BK24119	
Manchester, CT 06040	Collection Date							11/16/2015		11/16/2015	
(860) 645-1102	Client Id							C1		TPH1	
	Matrix							Solid		Solid	
Project Id : PS 38Q											
	CAS	Units	40 CFR 261.24	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL
Semivolatiles By SW8270D											
1,2,4,5-Tetrachlorobenzene	95-94-3	ug/Kg						< 250	250		
1,2,4-Trichlorobenzene	120-82-1	ug/Kg						< 250	250		
1,2-Dichlorobenzene	95-50-1	ug/Kg						< 250	250		
1,2-Diphenylhydrazine	122-66-7	ug/Kg						< 360	360		
1,3-Dichlorobenzene	541-73-1	ug/Kg						< 250	250		
1,4-Dichlorobenzene	106-46-7	ug/Kg						< 250	250		
2,4,5-Trichlorophenol	95-95-4	ug/Kg						< 250	250		
2,4,6-Trichlorophenol	88-06-2	ug/Kg						< 250	250		
2,4-Dichlorophenol	120-83-2	ug/Kg						< 250	250		
2,4-Dimethylphenol	105-67-9	ug/Kg						< 250	250		
2,4-Dinitrophenol	51-28-5	ug/Kg						< 580	580		
2,4-Dinitrotoluene	121-14-2	ug/Kg						< 250	250		
2,6-Dinitrotoluene	606-20-2	ug/Kg						< 250	250		
2-Chloronaphthalene	91-58-7	ug/Kg						< 250	250		
2-Chlorophenol	95-57-8	ug/Kg						< 250	250		
2-Methylnaphthalene	91-57-6	ug/Kg						< 250	250		
2-Methylphenol (o-cresol)	95-48-7	ug/Kg		330	100,000	100,000	330	< 250	250		
2-Nitroaniline	88-74-4	ug/Kg						< 580	580		
2-Nitrophenol	88-75-5	ug/Kg						< 250	250		
3&4-Methylphenol (m&p-cresol)	PHNX - M&P CRESOL	ug/Kg						< 360	360		
3,3'-Dichlorobenzidine	91-94-1	ug/Kg						< 250	250		
3-Nitroaniline	99-09-2	ug/Kg						< 580	580		
4,6-Dinitro-2-methylphenol	534-52-1	ug/Kg						< 1000	1,000		
4-Bromophenyl phenyl ether	101-55-3	ug/Kg						< 360	360		
4-Chloro-3-methylphenol	59-50-7	ug/Kg						< 250	250		
4-Chloroaniline	106-47-8	ug/Kg						< 250	250		
4-Chlorophenyl phenyl ether	7005-72-3	ug/Kg						< 250	250		
4-Nitroaniline	100-01-6	ug/Kg						< 580	580		
4-Nitrophenol	100-02-7	ug/Kg						< 1000	1,000		
Acenaphthene	83-32-9	ug/Kg		98,000	100,000	100,000	20,000	< 250	250		
Acenaphthylene	208-96-8	ug/Kg		107,000	100,000	100,000	100,000	< 250	250		
Acetophenone	98-86-2	ug/Kg						< 250	250		
Aniline	62-53-3	ug/Kg						< 1000	1,000		
Anthracene	120-12-7	ug/Kg		1,000,000	100,000	100,000	100,000	< 250	250		
Benz(a)anthracene	56-55-3	ug/Kg		1,000	1,000	1,000	1,000	< 250	250		
Benzidine	92-87-5	ug/Kg						< 430	430		
Benzo(a)pyrene	50-32-8	ug/Kg		22,000	1,000	1,000	1,000	< 200	200		
Benzo(b)fluoranthene	205-99-2	ug/Kg		1,700	1,000	1,000	1,000	< 250	250		
Benzo(ghi)perylene	191-24-2	ug/Kg		1,000,000	100,000	100,000	100,000	< 250	250		
Benzo(k)fluoranthene	207-08-9	ug/Kg		1,700	1,000	3,900	800	< 250	250		
Benzoic acid	65-85-0	ug/Kg						< 1000	1,000		
Benzyl butyl phthalate	85-68-7	ug/Kg						< 250	250		
Bis(2-chloroethoxy)methane	111-91-1	ug/Kg						< 250	250		
Bis(2-chloroethyl)ether	111-44-4	ug/Kg						< 360	360		
Bis(2-chloroisopropyl)ether	39638-32-9	ug/Kg						< 250	250		
Bis(2-ethylhexyl)phthalate	117-81-7	ug/Kg						< 250	250		
Carbazole	86-74-8	ug/Kg						< 540	540		
Chrysene	218-01-9	ug/Kg		1,000	1,000	3,900	1,000	< 250	250		
Dibenz(a,h)anthracene	53-70-3	ug/Kg		1,000,000	330	330	330	< 200	200		
Dibenzofuran	132-64-9	ug/Kg					7,000	< 250	250		
Diethyl phthalate	84-66-2	ug/Kg						< 250	250		
Dimethylphthalate	131-11-3	ug/Kg						< 250	250		
Di-n-butylphthalate	84-74-2	ug/Kg						< 250	250		
Di-n-octylphthalate	117-84-0	ug/Kg						< 250	250		
Fluoranthene	206-44-0	ug/Kg		1,000,000	100,000	100,000	100,000	< 250	250		
Fluorene	86-73-7	ug/Kg		386,000	100,000	100,000	30,000	< 250	250		
Hexachlorobenzene	118-74-1	ug/Kg						< 250	250		
Hexachlorobutadiene	87-68-3	ug/Kg						< 250	250		
Hexachlorocyclopentadiene	77-47-4	ug/Kg						< 250	250		
Hexachloroethane	67-72-1	ug/Kg						< 250	250		
Indeno(1,2,3-cd)pyrene	193-39-5	ug/Kg		8,200	500	500	500	< 250	250		
Isophorone	78-59-1	ug/Kg						< 250	250		
Naphthalene	91-20-3	ug/Kg		12,000	100,000	100,000	12,000	< 250	250		
Nitrobenzene	98-95-3	ug/Kg						< 250	250		
N-Nitrosodimethylamine	62-75-9	ug/Kg						< 360	360		
N-Nitrosodi-n-propylamine	621-64-7	ug/Kg						< 200	200		
N-Nitrosodiphenylamine	86-30-6	ug/Kg						< 360	360		
Pentachloronitrobenzene	82-68-8	ug/Kg						< 360	360		
Pentachlorophenol	87-86-5	ug/Kg		800	2,400	6,700	800	< 360	360		
Phenanthrene	85-01-8	ug/Kg		1,000,000	100,000	100,000	100,000	< 250	250		
Phenol	108-95-2	ug/Kg		330	100,000	100,000	330	< 250	250		
Pyrene	129-00-0	ug/Kg		1,000,000	100,000	100,000	100,000	< 250	250		
Pyridine	110-86-1	ug/Kg						< 360	360		

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Phoenix Environmental Laboratories, Inc.											
587 East Middle Turnpike											
P.O. Box 370	Lab Sample Id							BK24117		BK24119	
Manchester, CT 06040	Collection Date							11/16/2015		11/16/2015	
(860) 645-1102	Client Id							C1		TPH1	
	Matrix							Solid		Solid	
Project Id : PS 38Q											
	CAS	Units	40 CFR 261.24	NY-GWP	NY-Res.	NY-ResRestrict	NY-UnRestricted	Result	RL	Result	RL
Pesticides - Soil By SW8081B											
4,4' -DDD	72-54-8	ug/Kg		14,000	2,600	13,000	3.3	< 2.1	2.1		
4,4' -DDE	72-55-9	ug/Kg		17,000	1,800	8,900	3.3	< 2.1	2.1		
4,4' -DDT	50-29-3	ug/Kg		136,000	1,700	7,900	3.3	< 2.1	2.1		
a-BHC	319-84-6	ug/Kg		20	97	480	20	< 7.1	7.1		
a-Chlordane	5103-71-9	ug/Kg		2,900	910	4,200	94	< 3.6	3.6		
Aldrin	309-00-2	ug/Kg		190	19	97	5	< 3.6	3.6		
b-BHC	319-85-7	ug/Kg		90	72	360	36	< 7.1	7.1		
Chlordane	57-74-9	ug/Kg						< 36	36		
d-BHC	319-86-8	ug/Kg		250	100,000	100,000	40	< 7.1	7.1		
Dieldrin	60-57-1	ug/Kg		100	39	200	5	< 3.6	3.6		
Endosulfan I	959-98-8	ug/Kg		102,000	4,800	24,000	2,400	< 7.1	7.1		
Endosulfan II	33213-65-9	ug/Kg		102,000	4,800	24,000	2,400	< 7.1	7.1		
Endosulfan sulfate	1031-07-8	ug/Kg		1,000,000	4,800	24,000	2,400	< 7.1	7.1		
Endrin	72-20-8	ug/Kg		60	2,200	11,000	14	< 7.1	7.1		
Endrin aldehyde	7421-93-4	ug/Kg						< 7.1	7.1		
Endrin ketone	53494-70-5	ug/Kg						< 7.1	7.1		
g-BHC	58-89-9	ug/Kg		100	280	1,300	100	< 1.4	1.4		
g-Chlordane	5103-74-2	ug/Kg						< 3.6	3.6		
Heptachlor	76-44-8	ug/Kg		380	420	2,100	42	< 7.1	7.1		
Heptachlor epoxide	1024-57-3	ug/Kg						< 7.1	7.1		
Methoxychlor	72-43-5	ug/Kg						< 36	36		
Toxaphene	8001-35-2	ug/Kg						< 140	140		
Chlorinated Herbicides By SW8151A											
2,4,5-T	93-76-5	ug/Kg						< 46	46		
2,4,5-TP (Silvex)	93-72-1	ug/Kg		3,800	58,000	100,000	3,800	< 46	46		
2,4-D	94-75-7	ug/Kg						< 46	46		
2,4-DB	94-82-6	ug/Kg						< 460	460		
Dalapon	75-99-0	ug/Kg						< 46	46		
Dicamba	1918-00-9	ug/Kg						< 91	91		
Dichloroprop	120-36-5	ug/Kg						< 46	46		
Dinoseb	88-85-7	ug/Kg						< 91	91		

Result Detected	
RL Exceeds Criteria	
Result Exceeds Criteria	

Appendix C: Soil Testing Results from ELAP Certified Environmental Laboratory

PHOENIX
Environmental Laboratories, Inc.

Tuesday, November 24, 2015

Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Project ID: PS 38Q
Sample ID#s: BK24117 - BK24119

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

This report contains results for the parameters tested, under the sampling conditions described on the Chain Of Custody, as received by the laboratory.

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

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

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

Sincerely yours,

Phyllis Shiller
Laboratory Director

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

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

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

NY # 11301

SDG Comments

November 24, 2015

SDG I.D.: GBK24117

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

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

Analysis Report

November 24, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		11/16/15	
Location Code:	AMC-ENG	Received by:	SW	11/17/15	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK24117
Phoenix ID: BK24117

Project ID: PS 38Q
Client ID: C1

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Silver	< 0.35	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Aluminum	9090	53		mg/Kg	10	11/18/15	LK	SW6010C	
Arsenic	12.3	0.7		mg/Kg	1	11/18/15	LK	SW6010C	
Barium	39.3	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Beryllium	0.33	0.28		mg/Kg	1	11/18/15	LK	SW6010C	
Calcium	772	5.3		mg/Kg	1	11/18/15	LK	SW6010C	
Cadmium	< 0.35	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Cobalt	4.37	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Chromium	14.2	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Copper	10.0	0.35		mg/kg	1	11/18/15	LK	SW6010C	
Iron	12300	53		mg/Kg	10	11/19/15	LK	SW6010C	
Mercury	0.20	0.03		mg/Kg	1	11/18/15	RS	SW7471B	
Potassium	562	5.3		mg/Kg	1	11/18/15	LK	SW6010C	
Magnesium	1050	5.3		mg/Kg	1	11/18/15	LK	SW6010C	
Manganese	267	3.5		mg/Kg	10	11/18/15	LK	SW6010C	
Sodium	87.1	5.3		mg/Kg	1	11/18/15	LK	SW6010C	
Nickel	9.32	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Lead	28.4	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Antimony	< 3.5	3.5		mg/Kg	1	11/18/15	LK	SW6010C	
Selenium	< 1.4	1.4		mg/Kg	1	11/18/15	LK	SW6010C	
TCLP Silver	< 0.10	0.10		mg/L	1	11/18/15	EK	SW6010C	
TCLP Arsenic	< 0.10	0.10		mg/L	1	11/18/15	EK	SW6010C	
TCLP Barium	0.29	0.10		mg/L	1	11/18/15	EK	SW6010C	B
TCLP Cadmium	< 0.050	0.050		mg/L	1	11/18/15	EK	SW6010C	
TCLP Chromium	< 0.10	0.10		mg/L	1	11/18/15	EK	SW6010C	
TCLP Mercury	< 0.0002	0.0002		mg/L	1	11/18/15	MA	SW7470A	
TCLP Lead	< 0.10	0.10		mg/L	1	11/18/15	EK	SW6010C	
TCLP Selenium	< 0.10	0.10		mg/L	1	11/18/15	EK	SW6010C	

Project ID: PS 38Q
Client ID: C1

Phoenix I.D.: BK24117

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
Thallium	< 3.2	3.2		mg/Kg	1	11/18/15	LK	SW6010C	
TCLP Metals Digestion	Completed					11/18/15	W/W	SW3005A	
Vanadium	18.3	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Zinc	114	0.35		mg/Kg	1	11/18/15	LK	SW6010C	
Percent Solid	91			%		11/17/15	w	SW846-%Solid	
Corrosivity	Negative			Pos/Neg	1	11/17/15	DH/KDB	SW846-Corr	1
Flash Point	>200	200		Degree F	1	11/18/15	Y	SW1010A	
Ignitability	Passed	140		degree F	1	11/18/15	Y	SW846-Ignit	1
pH - Soil	6.97	0.10		pH Units	1	11/17/15 19:20	DH/KDB	SW9045	1
Reactivity Cyanide	< 5.3	5.3		mg/Kg	1	11/17/15	BS/GD	SW846-ReactCyn	1
Reactivity Sulfide	< 20	20		mg/Kg	1	11/17/15	BS/GD	SW-7.3	1
Reactivity	Negative			Pos/Neg	1	11/17/15	BS/GD	SW846-React	1
Total Sulfide	12.8	11.0		mg/Kg	1	11/18/15	GD	SW9030/9034	
Total Cyanide (SW9010C Distill.)	< 0.55	0.55		mg/Kg	1	11/18/15	O/GD	SW9012B	
Soil Extraction for PCB	Completed					11/17/15	BC	SW3545A	
Soil Extraction for Pesticide	Completed					11/17/15	BC/V	SW3545A	
Soil Extraction for SVOA	Completed					11/17/15	BJ/CKV	SW3545A	
Mercury Digestion	Completed					11/18/15	W/W	SW7471B	
Paint Filter Test	Passed			PASS/FAIL		11/18/15	J	SW9095B	
Soil Extraction for Herbicide	Completed					11/19/15	Q/D	SW8151A	
TCLP Digestion Mercury	Completed					11/18/15	W/W	SW7470A	
TCLP Extraction for Metals	Completed					11/17/15	W	SW1311	
Total Metals Digest	Completed					11/17/15	G/AG	SW3050B	
Chlorinated Herbicides									
2,4,5-T	ND	46		ug/Kg	10	11/20/15	BB	SW8151A	
2,4,5-TP (Silvex)	ND	46		ug/Kg	10	11/20/15	BB	SW8151A	
2,4-D	ND	46		ug/Kg	10	11/20/15	BB	SW8151A	
2,4-DB	ND	460		ug/Kg	10	11/20/15	BB	SW8151A	
Dalapon	ND	46		ug/Kg	10	11/20/15	BB	SW8151A	
Dicamba	ND	91		ug/Kg	10	11/20/15	BB	SW8151A	
Dichloroprop	ND	46		ug/Kg	10	11/20/15	BB	SW8151A	
Dinoseb	ND	91		ug/Kg	10	11/20/15	BB	SW8151A	
QA/QC Surrogates									
% DCAA	70			%	10	11/20/15	BB	30 - 150 %	
Polychlorinated Biphenyls									
PCB-1016	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1221	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1232	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1242	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1248	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1254	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1260	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1262	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
PCB-1268	ND	71		ug/Kg	2	11/18/15	AW	SW8082A	
QA/QC Surrogates									
% DCBP	72			%	2	11/18/15	AW	30 - 150 %	
% TCMX	80			%	2	11/18/15	AW	30 - 150 %	

Project ID: PS 38Q
Client ID: C1

Phoenix I.D.: BK24117

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Pesticides - Soil								
4,4' -DDD	ND	2.1		ug/Kg	2	11/23/15	CE	SW8081B
4,4' -DDE	ND	2.1		ug/Kg	2	11/23/15	CE	SW8081B
4,4' -DDT	ND	2.1		ug/Kg	2	11/23/15	CE	SW8081B
a-BHC	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
a-Chlordane	ND	3.6		ug/Kg	2	11/23/15	CE	SW8081B
Aldrin	ND	3.6		ug/Kg	2	11/23/15	CE	SW8081B
b-BHC	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Chlordane	ND	36		ug/Kg	2	11/23/15	CE	SW8081B
d-BHC	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Dieldrin	ND	3.6		ug/Kg	2	11/23/15	CE	SW8081B
Endosulfan I	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Endosulfan II	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Endosulfan sulfate	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Endrin	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Endrin aldehyde	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Endrin ketone	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
g-BHC	ND	1.4		ug/Kg	2	11/23/15	CE	SW8081B
g-Chlordane	ND	3.6		ug/Kg	2	11/23/15	CE	SW8081B
Heptachlor	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Heptachlor epoxide	ND	7.1		ug/Kg	2	11/23/15	CE	SW8081B
Methoxychlor	ND	36		ug/Kg	2	11/23/15	CE	SW8081B
Toxaphene	ND	140		ug/Kg	2	11/23/15	CE	SW8081B
QA/QC Surrogates								
% DCBP	68			%	2	11/23/15	CE	30 - 150 %
% TCMX	71			%	2	11/23/15	CE	30 - 150 %
Semivolatiles								
1,2,4,5-Tetrachlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
1,2,4-Trichlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
1,2-Dichlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
1,2-Diphenylhydrazine	ND	360		ug/Kg	1	11/18/15	DD	SW8270D
1,3-Dichlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
1,4-Dichlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,4,5-Trichlorophenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,4,6-Trichlorophenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,4-Dichlorophenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,4-Dimethylphenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,4-Dinitrophenol	ND	580		ug/Kg	1	11/18/15	DD	SW8270D
2,4-Dinitrotoluene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2,6-Dinitrotoluene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2-Chloronaphthalene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2-Chlorophenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2-Methylnaphthalene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2-Methylphenol (o-cresol)	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
2-Nitroaniline	ND	580		ug/Kg	1	11/18/15	DD	SW8270D
2-Nitrophenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
3&4-Methylphenol (m&p-cresol)	ND	360		ug/Kg	1	11/18/15	DD	SW8270D
3,3'-Dichlorobenzidine	ND	250		ug/Kg	1	11/18/15	DD	SW8270D

Project ID: PS 38Q
Client ID: C1

Phoenix I.D.: BK24117

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference	
3-Nitroaniline	ND	580		ug/Kg	1	11/18/15	DD	SW8270D	
4,6-Dinitro-2-methylphenol	ND	1000		ug/Kg	1	11/18/15	DD	SW8270D	
4-Bromophenyl phenyl ether	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
4-Chloro-3-methylphenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
4-Chloroaniline	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
4-Chlorophenyl phenyl ether	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
4-Nitroaniline	ND	580		ug/Kg	1	11/18/15	DD	SW8270D	
4-Nitrophenol	ND	1000		ug/Kg	1	11/18/15	DD	SW8270D	
Acenaphthene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Acenaphthylene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Acetophenone	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Aniline	ND	1000		ug/Kg	1	11/18/15	DD	SW8270D	
Anthracene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Benz(a)anthracene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Benzidine	ND	430		ug/Kg	1	11/18/15	DD	SW8270D	
Benzo(a)pyrene	ND	200		ug/Kg	1	11/18/15	DD	SW8270D	
Benzo(b)fluoranthene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Benzo(ghi)perylene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Benzo(k)fluoranthene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Benzoic acid	ND	1000		ug/Kg	1	11/18/15	DD	SW8270D	1
Benzyl butyl phthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Bis(2-chloroethoxy)methane	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Bis(2-chloroethyl)ether	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
Bis(2-chloroisopropyl)ether	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Bis(2-ethylhexyl)phthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Carbazole	ND	540		ug/Kg	1	11/18/15	DD	SW8270D	
Chrysene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Dibenz(a,h)anthracene	ND	200		ug/Kg	1	11/18/15	DD	SW8270D	
Dibenzofuran	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Diethyl phthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Dimethylphthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Di-n-butylphthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Di-n-octylphthalate	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Fluoranthene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Fluorene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Hexachlorobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Hexachlorobutadiene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Hexachlorocyclopentadiene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Hexachloroethane	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Indeno(1,2,3-cd)pyrene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Isophorone	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Naphthalene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
Nitrobenzene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	
N-Nitrosodimethylamine	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
N-Nitrosodi-n-propylamine	ND	200		ug/Kg	1	11/18/15	DD	SW8270D	
N-Nitrosodiphenylamine	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
Pentachloronitrobenzene	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
Pentachlorophenol	ND	360		ug/Kg	1	11/18/15	DD	SW8270D	
Phenanthrene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D	

Project ID: PS 38Q
Client ID: C1

Phoenix I.D.: BK24117

Parameter	Result	RL/ PQL	LOD/ MDL	Units	Dilution	Date/Time	By	Reference
Phenol	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
Pyrene	ND	250		ug/Kg	1	11/18/15	DD	SW8270D
Pyridine	ND	360		ug/Kg	1	11/18/15	DD	SW8270D
QA/QC Surrogates								
% 2,4,6-Tribromophenol	80			%	1	11/18/15	DD	30 - 130 %
% 2-Fluorobiphenyl	81			%	1	11/18/15	DD	30 - 130 %
% 2-Fluorophenol	78			%	1	11/18/15	DD	30 - 130 %
% Nitrobenzene-d5	70			%	1	11/18/15	DD	30 - 130 %
% Phenol-d5	82			%	1	11/18/15	DD	30 - 130 %
% Terphenyl-d14	87			%	1	11/18/15	DD	30 - 130 %

1 = This parameter is not certified by NY NELAC for this matrix. NY NELAC does not offer certification for all parameters at this time.
B = Present in blank, no bias suspected.

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level LOD=Limit of Detection MDL=Method Detection Limit
QA/QC Surrogates: Surrogates are compounds (preceeded with a %) added by the lab to determine analysis efficiency. Surrogate results(%) listed in the report are not "detected" compounds.

Comments:

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

Corrosivity is based solely on the pH analysis performed above.

Please be advised that the NY 375 soil criteria for chromium are based on hexavalent chromium and trivalent chromium.

Ignitability is based solely on the results of the closed cup flashpoint analysis performed above. Passed is >140 degree F.

The regulatory hold time for pH is immediately. This pH was performed in the laboratory and may be considered outside of hold-time.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Cyanide.This method is no longer listed in the current version of SW-846.

The reactivity, reported above, is based only on the EPA Interim Guidance for Reactive Sulfide. This method is no longer listed in the current version of SW-846.

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
November 24, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

PHOENIX

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 24, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		11/16/15	
Location Code:	AMC-ENG	Received by:	SW	11/17/15	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK24117
Phoenix ID: BK24118

Project ID: PS 38Q
Client ID: GR1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Volatiles (TCL)							
1,1,1-Trichloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,1,2,2-Tetrachloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,1,2-Trichloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,1-Dichloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,1-Dichloroethene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2,3-Trichlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2,4-Trichlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2-Dibromo-3-chloropropane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2-Dibromoethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2-Dichlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2-Dichloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,2-Dichloropropane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,3-Dichlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
1,4-Dichlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
2-Hexanone	ND	26	ug/kg	1	11/20/15	JLI	SW8260C
4-Methyl-2-pentanone	ND	26	ug/kg	1	11/20/15	JLI	SW8260C
Acetone	ND	50	ug/kg	1	11/20/15	JLI	SW8260C
Benzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Bromochloromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Bromodichloromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Bromoform	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Bromomethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Carbon Disulfide	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Carbon tetrachloride	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Chlorobenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Chloroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C

Project ID: PS 38Q
Client ID: GR1

Phoenix I.D.: BK24118

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Chloroform	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Chloromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
cis-1,2-Dichloroethene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
cis-1,3-Dichloropropene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Cyclohexane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Dibromochloromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Dichlorodifluoromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Ethylbenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Isopropylbenzene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
m&p-Xylene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Methyl ethyl ketone	ND	31	ug/kg	1	11/20/15	JLI	SW8260C
Methyl t-butyl ether (MTBE)	ND	10	ug/kg	1	11/20/15	JLI	SW8260C
Methylacetate	ND	4.1	ug/kg	1	11/20/15	JLI	SW8260C
Methylcyclohexane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Methylene chloride	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
o-Xylene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Styrene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Tetrachloroethene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Toluene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Total Xylenes	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
trans-1,2-Dichloroethene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
trans-1,3-Dichloropropene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Trichloroethene	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Trichlorofluoromethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Trichlorotrifluoroethane	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
Vinyl chloride	ND	5.2	ug/kg	1	11/20/15	JLI	SW8260C
QA/QC Surrogates							
% 1,2-dichlorobenzene-d4	102		%	1	11/20/15	JLI	70 - 130 %
% Bromofluorobenzene	93		%	1	11/20/15	JLI	70 - 130 %
% Dibromofluoromethane	100		%	1	11/20/15	JLI	70 - 130 %
% Toluene-d8	99		%	1	11/20/15	JLI	70 - 130 %

Volatiles

1,1,1,2-Tetrachloroethane	ND	21	ug/Kg	1	11/20/15	JLI	SW8260C
Acrolein	ND	21	ug/Kg	1	11/20/15	JLI	SW8260C
Acrylonitrile	ND	21	ug/Kg	1	11/20/15	JLI	SW8260C
Tert-butyl alcohol	ND	100	ug/Kg	1	11/20/15	JLI	SW8260C
Volatile Library Search Top 10	Completed				11/20/15	JLI	

Project ID: PS 38Q
Client ID: GR1

Phoenix I.D.: BK24118

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

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

Comments:

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

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

If there are any questions regarding this data, please call Phoenix Client Services at extension 200.
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Phyllis Shiller, Laboratory Director
November 24, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

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

ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

Analysis Report

November 24, 2015

FOR: Attn: Ariel Czemerinski
AMC Engineering
99 Jericho Turnpike
Suite 300J
Jericho, NY 11753

Sample Information		Custody Information		Date	Time
Matrix:	SOLID	Collected by:		11/16/15	
Location Code:	AMC-ENG	Received by:	SW	11/17/15	16:00
Rush Request:	Standard	Analyzed by:	see "By" below		
P.O.#:					

Laboratory Data

SDG ID: GBK24117
Phoenix ID: BK24119

Project ID: PS 38Q
Client ID: TPH1

Parameter	Result	RL/ PQL	Units	Dilution	Date/Time	By	Reference
Percent Solid	90		%		11/17/15	w	SW846-%Solid
Extraction of TPH SM	Completed				11/17/15	JC/VCK	SW3545A
TPH (C10-C28) Extractable Products							
Diesel Range Organics (C10-C28)	ND	54	mg/Kg	1	11/20/15	JRB	8015D DRO
QA/QC Surrogates							
% n-Pentacosane	74		%	1	11/20/15	JRB	50 - 150 %

RL/PQL=Reporting/Practical Quantitation Level (Equivalent to NELAC LOQ, Limit of Quanitation) ND=Not Detected BRL=Below Reporting Level
QA/QC Surrogates: Surrogates 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 TPH (C10-C28) is quantitated using an alkane 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
November 24, 2015
Reviewed and Released by: Bobbi Aloisa, Vice President

1E
VOLATILE ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

CLIENT ID

GR1

Lab Name: Phoenix Environmental Labs Client: AMC-ENG

Lab Code: Phoenix Case No.: SAS No.: SDG No.: GBK24117

Matrix:(soil/water) SOIL Lab Sample ID: BK24118

Sample wt/vol: 4.87 (g/mL) g Lab File ID: 1119B53.D

Level: (low/med) Low Date Received: 11/17/15

% Moisture: not dec. 0 Date Analyzed: 11/20/15

GC Column: rtx-vms ID: 0.18 (mm) Dilution Factor: 1

Soil Extract Volume: 5000 (uL) Soil Aliquot Vol (uL): 5000

Number TICs found: 0 CONCENTRATION UNITS: (ug/L or ug/KG) ug/Kg

CAS NUMBER	COMPOUND NAME	RT	EST. CONC.	Q

FORM I VOA-TIC

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

QA/QC Report

November 24, 2015

QA/QC Data

SDG I.D.: GBK24117

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 327024 (mg/kg), QC Sample No: BK23851 (BK24117)														
Mercury - Soil	BRL	0.06	0.18	0.15	18.2	98.9	96.8	2.1	105	58.6	56.7	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 327029 (mg/L), QC Sample No: BK23853 (BK24117)														
Mercury - Water	BRL	0.0002	<0.0005	<0.0002	NC	80.3	81.0	0.9	78.0	74.8	4.2	70 - 130	20	
Comment:														
Additional Mercury criteria: LCS acceptance range for waters is 80-120% and for soils is 70-130%.														
QA/QC Batch 327027 (mg/L), QC Sample No: BK24273 (BK24117)														
ICP Metals - TCLP Extraction														
Arsenic	BRL	0.01	<0.01	<0.01	NC	115	109	5.4	108	109	0.9	75 - 125	20	
Barium	0.01	0.01	0.29	0.30	3.40	108	104	3.8	101	102	1.0	75 - 125	20	
Cadmium	BRL	0.005	<0.005	<0.005	NC	104	98.8	5.1	99.3	99.8	0.5	75 - 125	20	
Chromium	BRL	0.010	<0.010	<0.010	NC	110	105	4.7	104	105	1.0	75 - 125	20	
Lead	BRL	0.010	0.062	0.063	1.60	107	102	4.8	101	101	0.0	75 - 125	20	
Selenium	BRL	0.01	<0.01	<0.01	NC	121	116	4.2	115	115	0.0	75 - 125	20	
Silver	BRL	0.010	<0.010	<0.010	NC	120	114	5.1	113	114	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.
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Tel. (860) 645-1102 Fax (860) 645-0823

NY # 11301

QA/QC Report

November 24, 2015

QA/QC Data

SDG I.D.: GBK24117

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 326899 (mg/Kg), QC Sample No: BK22965 5X (BK24117)													
Reactivity Cyanide	BRL	0.05	<5.4	<5.4	NC	96.8						85 - 115	30
QA/QC Batch 326942 (Degree F), QC Sample No: BK23246 (BK24117)													
Flash Point			>200	>200	NC	101						85 - 115	30
QA/QC Batch 327031 (PH), QC Sample No: BK24117 (BK24117)													
pH - Soil			6.97	6.90	1.00	97.8						85 - 115	20
QA/QC Batch 327127 (mg/Kg), QC Sample No: BK24117 50X (BK24117)													
Total Cyanide (SW9010C Distill.)	BRL	0.50	<0.55	<0.55	NC	92.0			90.0			85 - 115	30
QA/QC Batch 327049 (mg/Kg), QC Sample No: BK24117 (BK24117)													
Total Sulfide	BRL	10.0	12.8	13.0	NC	98.1						85 - 115	30

PHOENIX

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ACCREDITED IN ACCORDANCE WITH nelac NY # 11301

QA/QC Report

November 24, 2015

QA/QC Data

SDG I.D.: GBK24117

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits
QA/QC Batch 326978 (mg/Kg), QC Sample No: BK23858 (BK24119)										
TPH by GC (Extractable Products) - Solid										
Ext. Petroleum HC	ND	50	66			53	62	15.7	30 - 130	30
% n-Pentacosane	63	%	104			66	77	15.4	50 - 150	30
QA/QC Batch 327011 (ug/Kg), QC Sample No: BK24117 2X (BK24117)										
Polychlorinated Biphenyls - Solid										
PCB-1016	ND	33	68			55	58	5.3	40 - 140	30
PCB-1221	ND	33							40 - 140	30
PCB-1232	ND	33							40 - 140	30
PCB-1242	ND	33							40 - 140	30
PCB-1248	ND	33							40 - 140	30
PCB-1254	ND	33							40 - 140	30
PCB-1260	ND	33	87			68	71	4.3	40 - 140	30
PCB-1262	ND	33							40 - 140	30
PCB-1268	ND	33							40 - 140	30
% DCBP (Surrogate Rec)	98	%	93			74	73	1.4	30 - 150	30
% TCMX (Surrogate Rec)	87	%	80			65	66	1.5	30 - 150	30
Comment:										
LCS could not be reported, LCSD was reported as LCS.										
QA/QC Batch 326989 (ug/Kg), QC Sample No: BK24406 2X (BK24117)										
Pesticides - Solid										
4,4' -DDD	ND	1.7	73	79	7.9	63	54	15.4	40 - 140	30
4,4' -DDE	ND	1.7	75	80	6.5	60	65	8.0	40 - 140	30
4,4' -DDT	ND	1.7	87	83	4.7	87	77	12.2	40 - 140	30
a-BHC	ND	1.0	72	77	6.7	59	63	6.6	40 - 140	30
a-Chlordane	ND	3.3	75	79	5.2	101	104	2.9	40 - 140	30
Aldrin	ND	1.0	73	77	5.3	58	63	8.3	40 - 140	30
b-BHC	ND	1.0	76	80	5.1	60	66	9.5	40 - 140	30
Chlordane	ND	33	75	80	6.5	66	71	7.3	40 - 140	30
d-BHC	ND	3.3	62	65	4.7	53	56	5.5	40 - 140	30
Dieldrin	ND	1.0	76	80	5.1	67	68	1.5	40 - 140	30
Endosulfan I	ND	3.3	81	86	6.0	70	73	4.2	40 - 140	30
Endosulfan II	ND	3.3	77	84	8.7	61	67	9.4	40 - 140	30
Endosulfan sulfate	ND	3.3	73	81	10.4	67	64	4.6	40 - 140	30
Endrin	ND	3.3	84	89	5.8	50	55	9.5	40 - 140	30
Endrin aldehyde	ND	3.3	77	82	6.3	62	67	7.8	40 - 140	30
Endrin ketone	ND	3.3	81	90	10.5	70	76	8.2	40 - 140	30
g-BHC	ND	1.0	75	81	7.7	57	64	11.6	40 - 140	30
g-Chlordane	ND	3.3	75	80	6.5	66	71	7.3	40 - 140	30
Heptachlor	ND	3.3	72	76	5.4	59	63	6.6	40 - 140	30
Heptachlor epoxide	ND	3.3	77	80	3.8	60	65	8.0	40 - 140	30
Methoxychlor	ND	3.3	86	95	9.9	78	70	10.8	40 - 140	30

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Toxaphene	ND	130	NA	NA	NC	NA	NA	NC	40 - 140	30	
% DCBP	89	%	86	92	6.7	76	74	2.7	30 - 150	30	
% TCMX	65	%	75	77	2.6	58	62	6.7	30 - 150	30	

QA/QC Batch 326997 (ug/kg), QC Sample No: BK24499 (BK24117)

Semivolatiles - Solid

1,2,4,5-Tetrachlorobenzene	ND	230	80	87	8.4	62			30 - 130	30	
1,2,4-Trichlorobenzene	ND	230	76	79	3.9	60			30 - 130	30	
1,2-Dichlorobenzene	ND	180	60	66	9.5	45			30 - 130	30	
1,2-Diphenylhydrazine	ND	230	85	81	4.8	68			30 - 130	30	
1,3-Dichlorobenzene	ND	230	57	64	11.6	41			30 - 130	30	
1,4-Dichlorobenzene	ND	230	56	64	13.3	43			30 - 130	30	
2,4,5-Trichlorophenol	ND	230	78	78	0.0	67			30 - 130	30	
2,4,6-Trichlorophenol	ND	130	80	83	3.7	63			30 - 130	30	
2,4-Dichlorophenol	ND	130	83	90	8.1	67			30 - 130	30	
2,4-Dimethylphenol	ND	230	79	80	1.3	70			30 - 130	30	
2,4-Dinitrophenol	ND	230	14	<10	NC	58			30 - 130	30	l
2,4-Dinitrotoluene	ND	130	82	79	3.7	64			30 - 130	30	
2,6-Dinitrotoluene	ND	130	79	78	1.3	60			30 - 130	30	
2-Chloronaphthalene	ND	230	78	83	6.2	57			30 - 130	30	
2-Chlorophenol	ND	230	69	70	1.4	53			30 - 130	30	
2-Methylnaphthalene	ND	230	84	91	8.0	66			30 - 130	30	
2-Methylphenol (o-cresol)	ND	230	71	75	5.5	58			30 - 130	30	
2-Nitroaniline	ND	330	86	81	6.0	57			30 - 130	30	
2-Nitrophenol	ND	230	79	84	6.1	65			30 - 130	30	
3&4-Methylphenol (m&p-cresol)	ND	230	80	90	11.8	63			30 - 130	30	
3,3'-Dichlorobenzidine	ND	130	74	72	2.7	<10			30 - 130	30	m
3-Nitroaniline	ND	330	81	77	5.1	47			30 - 130	30	
4,6-Dinitro-2-methylphenol	ND	230	31	24	25.5	63			30 - 130	30	l
4-Bromophenyl phenyl ether	ND	230	78	83	6.2	56			30 - 130	30	
4-Chloro-3-methylphenol	ND	230	87	83	4.7	69			30 - 130	30	
4-Chloroaniline	ND	230	90	93	3.3	38			30 - 130	30	
4-Chlorophenyl phenyl ether	ND	230	73	74	1.4	56			30 - 130	30	
4-Nitroaniline	ND	230	83	83	0.0	67			30 - 130	30	
4-Nitrophenol	ND	230	74	68	8.5	64			30 - 130	30	
Acenaphthene	ND	230	76	77	1.3	60			30 - 130	30	
Acenaphthylene	ND	130	71	72	1.4	55			30 - 130	30	
Acetophenone	ND	230	65	69	6.0	52			30 - 130	30	
Aniline	ND	330	72	76	5.4	22			30 - 130	30	m
Anthracene	ND	230	80	80	0.0	52			30 - 130	30	
Benz(a)anthracene	ND	230	77	74	4.0	NC			30 - 130	30	
Benzidine	ND	330	54	42	25.0	<10			30 - 130	30	m
Benzo(a)pyrene	ND	130	80	79	1.3	NC			30 - 130	30	
Benzo(b)fluoranthene	ND	160	84	78	7.4	NC			30 - 130	30	
Benzo(ghi)perylene	ND	230	77	79	2.6	34			30 - 130	30	
Benzo(k)fluoranthene	ND	230	81	84	3.6	74			30 - 130	30	
Benzoic Acid	ND	330	<10	<10	NC	54			30 - 130	30	l
Benzyl butyl phthalate	ND	230	80	75	6.5	60			30 - 130	30	
Bis(2-chloroethoxy)methane	ND	230	78	83	6.2	62			30 - 130	30	
Bis(2-chloroethyl)ether	ND	130	55	58	5.3	48			30 - 130	30	
Bis(2-chloroisopropyl)ether	ND	230	70	72	2.8	52			30 - 130	30	
Bis(2-ethylhexyl)phthalate	ND	230	77	73	5.3	56			30 - 130	30	
Carbazole	ND	330	83	81	2.4	60			30 - 130	30	

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
Chrysene	ND	230	83	81	2.4	NC			30 - 130	30	
Dibenz(a,h)anthracene	ND	130	78	78	0.0	52			30 - 130	30	
Dibenzofuran	ND	230	77	78	1.3	59			30 - 130	30	
Diethyl phthalate	ND	230	91	87	4.5	67			30 - 130	30	
Dimethylphthalate	ND	230	81	79	2.5	63			30 - 130	30	
Di-n-butylphthalate	ND	230	85	81	4.8	61			30 - 130	30	
Di-n-octylphthalate	ND	230	77	74	4.0	55			30 - 130	30	
Fluoranthene	ND	230	82	80	2.5	NC			30 - 130	30	
Fluorene	ND	230	81	82	1.2	59			30 - 130	30	
Hexachlorobenzene	ND	130	84	81	3.6	57			30 - 130	30	
Hexachlorobutadiene	ND	230	73	80	9.2	56			30 - 130	30	
Hexachlorocyclopentadiene	ND	230	71	76	6.8	35			30 - 130	30	
Hexachloroethane	ND	130	58	64	9.8	42			30 - 130	30	
Indeno(1,2,3-cd)pyrene	ND	230	78	78	0.0	NC			30 - 130	30	
Isophorone	ND	130	74	76	2.7	60			30 - 130	30	
Naphthalene	ND	230	73	79	7.9	59			30 - 130	30	
Nitrobenzene	ND	130	71	71	0.0	54			30 - 130	30	
N-Nitrosodimethylamine	ND	230	38	37	2.7	34			30 - 130	30	
N-Nitrosodi-n-propylamine	ND	130	80	80	0.0	62			30 - 130	30	
N-Nitrosodiphenylamine	ND	130	82	81	1.2	64			30 - 130	30	
Pentachloronitrobenzene	ND	230	81	81	0.0	55			30 - 130	30	
Pentachlorophenol	ND	230	69	62	10.7	62			30 - 130	30	
Phenanthrene	ND	130	82	80	2.5	NC			30 - 130	30	
Phenol	ND	230	76	78	2.6	55			30 - 130	30	
Pyrene	ND	230	83	82	1.2	NC			30 - 130	30	
Pyridine	ND	230	25	27	7.7	23			30 - 130	30	l,m
% 2,4,6-Tribromophenol	60	%	79	74	6.5	60			30 - 130	30	
% 2-Fluorobiphenyl	67	%	73	74	1.4	57			30 - 130	30	
% 2-Fluorophenol	56	%	61	63	3.2	44			30 - 130	30	
% Nitrobenzene-d5	61	%	67	70	4.4	51			30 - 130	30	
% Phenol-d5	64	%	75	81	7.7	56			30 - 130	30	
% Terphenyl-d14	67	%	81	79	2.5	63			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 327412 (ug/kg), QC Sample No: BK24633 (BK24118)

Volatiles - Solid

1,1,1,2-Tetrachloroethane	ND	5.0	101	110	8.5	101	101	0.0	70 - 130	30
1,1,1-Trichloroethane	ND	5.0	116	123	5.9	116	116	0.0	70 - 130	30
1,1,2,2-Tetrachloroethane	ND	3.0	91	104	13.3	93	93	0.0	70 - 130	30
1,1,2-Trichloroethane	ND	5.0	97	109	11.7	101	101	0.0	70 - 130	30
1,1-Dichloroethane	ND	5.0	113	120	6.0	114	116	1.7	70 - 130	30
1,1-Dichloroethene	ND	5.0	114	118	3.4	110	109	0.9	70 - 130	30
1,2,3-Trichlorobenzene	ND	5.0	94	99	5.2	88	90	2.2	70 - 130	30
1,2,4-Trichlorobenzene	ND	5.0	96	99	3.1	89	89	0.0	70 - 130	30
1,2-Dibromo-3-chloropropane	ND	5.0	84	99	16.4	82	82	0.0	70 - 130	30
1,2-Dibromoethane	ND	5.0	95	105	10.0	97	96	1.0	70 - 130	30
1,2-Dichlorobenzene	ND	5.0	97	101	4.0	97	96	1.0	70 - 130	30
1,2-Dichloroethane	ND	5.0	99	111	11.4	104	103	1.0	70 - 130	30
1,2-Dichloropropane	ND	5.0	104	113	8.3	105	108	2.8	70 - 130	30
1,3-Dichlorobenzene	ND	5.0	99	104	4.9	103	98	5.0	70 - 130	30

QA/QC Data

SDG I.D.: GBK24117

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
1,4-Dichlorobenzene	ND	5.0	98	101	3.0	98	95	3.1	70 - 130	30	
2-Hexanone	ND	25	74	89	18.4	71	72	1.4	70 - 130	30	
4-Methyl-2-pentanone	ND	25	79	99	22.5	87	88	1.1	70 - 130	30	
Acetone	ND	10	92	110	17.8	66	69	4.4	70 - 130	30	m
Acrolein	ND	25	55	59	7.0	38	37	2.7	70 - 130	30	l,m
Acrylonitrile	ND	5.0	91	111	19.8	98	106	7.8	70 - 130	30	
Benzene	ND	1.0	111	119	7.0	116	117	0.9	70 - 130	30	
Bromochloromethane	ND	5.0	105	117	10.8	107	107	0.0	70 - 130	30	
Bromodichloromethane	ND	5.0	106	120	12.4	106	108	1.9	70 - 130	30	
Bromoform	ND	5.0	91	101	10.4	85	87	2.3	70 - 130	30	
Bromomethane	ND	5.0	104	108	3.8	72	72	0.0	70 - 130	30	
Carbon Disulfide	ND	5.0	103	108	4.7	91	94	3.2	70 - 130	30	
Carbon tetrachloride	ND	5.0	118	123	4.1	113	116	2.6	70 - 130	30	
Chlorobenzene	ND	5.0	101	106	4.8	103	102	1.0	70 - 130	30	
Chloroethane	ND	5.0	104	111	6.5	27	26	3.8	70 - 130	30	m
Chloroform	ND	5.0	105	121	14.2	108	109	0.9	70 - 130	30	
Chloromethane	ND	5.0	106	111	4.6	107	108	0.9	70 - 130	30	
cis-1,2-Dichloroethene	ND	5.0	116	121	4.2	116	117	0.9	70 - 130	30	
cis-1,3-Dichloropropene	ND	5.0	102	113	10.2	101	100	1.0	70 - 130	30	
Cyclohexane	ND	5.0	116	122	5.0	122	121	0.8	70 - 130	30	
Dibromochloromethane	ND	3.0	96	107	10.8	95	96	1.0	70 - 130	30	
Dichlorodifluoromethane	ND	5.0	106	112	5.5	108	112	3.6	70 - 130	30	
Ethylbenzene	ND	1.0	107	109	1.9	109	106	2.8	70 - 130	30	
Isopropylbenzene	ND	1.0	107	110	2.8	109	106	2.8	70 - 130	30	
m&p-Xylene	ND	2.0	104	109	4.7	106	103	2.9	70 - 130	30	
Methyl ethyl ketone	ND	5.0	78	97	21.7	81	77	5.1	70 - 130	30	
Methyl t-butyl ether (MTBE)	ND	1.0	98	114	15.1	102	104	1.9	70 - 130	30	
Methylacetate	ND	5.0	101	109	7.6	108	115	6.3	70 - 130	30	
Methylcyclohexane	ND	5.0	110	114	3.6	113	114	0.9	70 - 130	30	
Methylene chloride	ND	5.0	97	107	9.8	102	104	1.9	70 - 130	30	
o-Xylene	ND	2.0	104	109	4.7	108	105	2.8	70 - 130	30	
Styrene	ND	5.0	102	110	7.5	105	103	1.9	70 - 130	30	
tert-butyl alcohol	ND	100	99	92	7.3	107	101	5.8	70 - 130	30	
Tetrachloroethene	ND	5.0	113	117	3.5	113	113	0.0	70 - 130	30	
Toluene	ND	1.0	109	117	7.1	112	113	0.9	70 - 130	30	
trans-1,2-Dichloroethene	ND	5.0	123	131	6.3	127	127	0.0	70 - 130	30	l
trans-1,3-Dichloropropene	ND	5.0	98	110	11.5	93	96	3.2	70 - 130	30	
Trichloroethene	ND	5.0	115	121	5.1	119	119	0.0	70 - 130	30	
Trichlorofluoromethane	ND	5.0	108	113	4.5	68	64	6.1	70 - 130	30	m
Trichlorotrifluoroethane	ND	5.0	119	121	1.7	111	113	1.8	70 - 130	30	
Vinyl chloride	ND	5.0	105	112	6.5	107	109	1.9	70 - 130	30	
% 1,2-dichlorobenzene-d4	99	%	98	99	1.0	100	96	4.1	70 - 130	30	
% Bromofluorobenzene	100	%	98	101	3.0	100	101	1.0	70 - 130	30	
% Dibromofluoromethane	105	%	96	105	9.0	98	97	1.0	70 - 130	30	
% Toluene-d8	101	%	102	102	0.0	102	102	0.0	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%.

QA/QC Batch 327331 (ug/Kg), QC Sample No: BK24934 2X (BK24117)

Chlorinated Herbicides - Solid

2,4,5-T	ND	8.3	40	41	2.5	34	38	11.1	40 - 140	30	
2,4,5-TP (Silvex)	ND	8.3	49	58	16.8	51	52	1.9	40 - 140	30	

QA/QC Data

SDG I.D.: GBK24117

Parameter	Blank	Blk RL	LCS %	LCSD %	LCS RPD	MS %	MSD %	MS RPD	% Rec Limits	% RPD Limits	
2,4-D	ND	8.3	41	57	32.7	40	46	14.0	40 - 140	30	r
2,4-DB	ND	67	117	86	30.5	107	77	32.6	40 - 140	30	r
Dalapon	ND	8.3	54	54	0.0	105	98	6.9	40 - 140	30	
Dicamba	ND	17	90	96	6.5	90	89	1.1	40 - 140	30	
Dichloroprop	ND	8.3	56	63	11.8	60	60	0.0	40 - 140	30	
Dinoseb	ND	17	129	87	38.9	125	82	41.5	40 - 140	30	r
% DCAA (Surrogate Rec)	96	%	86	89	3.4	83	77	7.5	30 - 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
November 24, 2015

Sample Criteria Exceedences Report

GBK24117 - AMC-ENG

Criteria: NJ: NRC, RC; NY: 375, 375GWP, 375RRS, 37

State: NY

SampNo	Acode	Phoenix Analyte	Criteria	Result	RL	Criteria	RL Criteria	Analysis Units
BK24117	HG-SM	Mercury	NY / 375-6.8 Metals / Unrestricted Use Soil	0.20	0.03	0.18	0.18	mg/Kg
BK24117	ZN-SM	Zinc	NY / 375-6.8 Metals / Unrestricted Use Soil	114	0.35	109	109	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.

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

NY Temperature Narration

November 24, 2015

SDG I.D.: GBK24117

The samples in this delivery group were received at 4°C.
(Note acceptance criteria is above freezing up to 6°C)

PHOENIX Environmental Laboratories, Inc.

NY/NJ CHAIN OF CUSTODY RECORD

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

Client Services (860) 645-8726

Temp 4 (on ice) | Pg 1 of 1

Data Delivery:
☐ Fax #:
☑ Emai ARIEL@AMC-ENGINEERING.COM

Customer:	AMC ENGINEERING PLLC	Project:	PS 38Q	Project P.O:	
Address:	99 JERICHO TURNPIKE STE. 300J	Report to:	ARIEL CZEMERINSKI	Phone #:	516 417-8588
	JERICHO NY 11753	Invoice to:	AMC ENGINEERING PLLC	Fax #:	516 706-3214

Sampler's Signature: [signature] Date: 11/16/2015

Client Sample Information - Identification

Analysis Request

Matrix Code:
DW=drinking water WW=wastewater S=soil/solid O=oil
GW=groundwater SL=sludge A=air X=other

Phoenix Sample #	Customer Sample Identification	Sample Matrix	Date Sampled	Time Sampled	TCLP Metals (EPA 1311/6010)	RCRA Charact (Ignit., React., Corr. pH, *****)	TAL Metals (6010)	PCB (EPA 8082A)	Herb/Pest (NJDEP+TCL/TAL) EPA8081A/8151A	TPH (8015M)	SVOC (8270)	Paint Filter	VOC (8260)			Soil VOA [X] Methanol [ ] S. Bisulfate [X] H2O	GL Soil container (8) oz	GL Soil container (2) oz	40 ml VOA Vial [ ] As is [x] HCl	GL Amber 1000ml [x] As is [ ] H2SO4	PL As is [ ] 250ml [ ] 500ml [ ] 1000ml	PL H2SO4 [ ] 250ml [ ] 500ml	PL HNO3 250ml	PL NaOH 250ml	Encore
24117	C1	S	11/16/2015		X	X	X	X	X		X	X						2							
24118	GR1	S	11/16/2015										X				3								
24119	TPH1	S	11/16/2015							X								1							

Relinquished by:	Accepted by:	Date:	Time:
[signature]	[signature]	11-17-15	11:00
[signature]	[signature]	11-17-15	16:00

Comments, Special Requirements or Regulations:

34

***** (sulfide and total cyanide) - EPA 9040C, 1010A, and SW846, Ch.7.3

Turnaround:
☐ 1 Day*
☐ 2 Days*
☐ 3 Days*
■ Standard
☐ Other 5 DAYS
* SURCHARGE APPLIES

NJ
■ Res. Criteria
■ Non-Res. Criteria
☐ Impact to GW Soil Cleanup Criteria
☐ GW Criteria

NY
☐ TAGM 4046 GW
☐ TAGM 4046 SOIL
■ NY375 Unrestricted Soil
■ NY375 Residential Soil
■ NY375 Restricted Non-Residential Soil
■ NY375 Protection to Groundwater

Data Format
☐ Phoenix Std Report
■ Excel
■ PDF
☐ GIS/Key
☐ EQuIS
☐ NJ Hazsite EDD
☐ NY EZ EDD (ASP)
☐ Other

State where samples were collected: NY

Data Package
☐ NJ Reduced Deliv. *
☐ NY Enhanced (ASP B) *
☐ Other