



OSPREY ENVIRONMENTAL ENGINEERING, LLC.

146 EAST MAIN STREET . CLINTON, CT 06413

PHONE: 860.669.8651

Mr. Scott Bartlett, Superintendent, Director of Public Works Operations
Fairfield Department of Public Works
725 Old Post Road
Fairfield, CT 06824

02 May 2018

Re: Soils Sampling, Southeasterly Berm
Aggregate Recycling Yard Berm Project, Fairfield, CT
Collection date: 25 & 27 April 2018

Per your request, a sample of soil from the above soil source was collected to determine concentrations of constituents of concern (COCs) related to available environmental and health & safety standards and guidelines. A sample was composited from the topsoil stockpile and was collected in new glassware supplied by the laboratory and stored in compliance with standard sample preservation procedures. The composite sample was submitted to Complete Environmental Testing, Inc., a Connecticut Certified Laboratory. Samples were compared to the DEEP Remediation Standards Regulations (RSRs) Direct Exposure Criteria (DEC) for environmental consideration. The sample was analyzed for PCBs, ETPH, arsenic, and lead. The following is a comparison of the results of the analyses to their respective evaluation criteria.

Sample Summary Table

COMPOUND	ETPH	Arsenic	Lead	PCBs
(Residential/Industrial & Commercial) mg/kg	500/2500	10/10	400/1000	1/10
<i>Topsoil stockpile</i>	<i>950</i>	26	52	ND<0.11

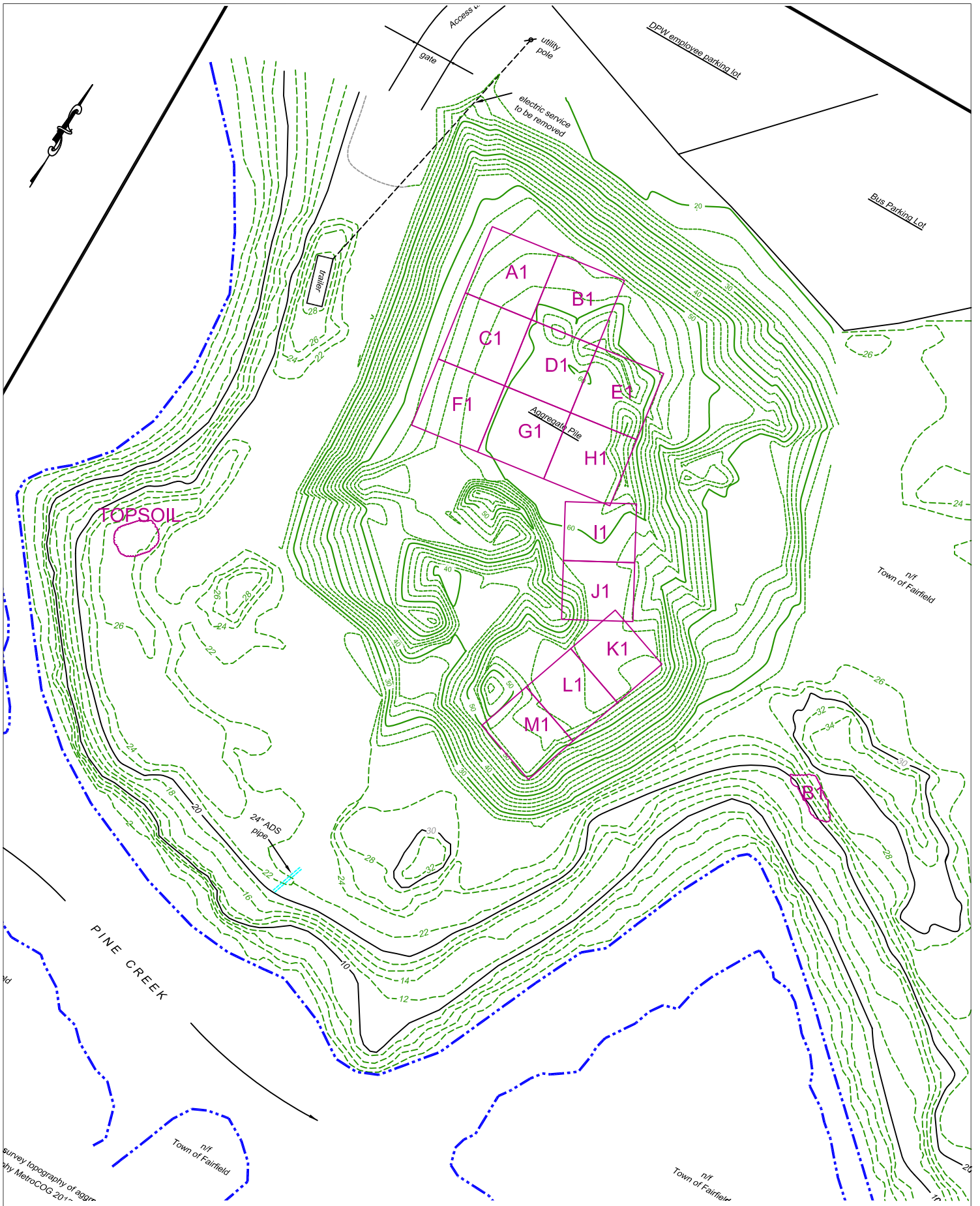
Green is above the Residential DEC *Blue* is above the Residential & Industrial/Commercial DEC

The sample had ETPH above the Residential DEC most likely due to the presence of asphalt fragments. Arsenic was above the Residential and Industrial/Commercial DEC. PCBs and lead were below the Residential and the Industrial/Commercial DEC.

Should you have any questions regarding the above, please contact me.

Sincerely,
Osprey Environmental Engineering, LLC.

Robert Grabarek, P.E., L.S., LEP
President



A-3

AGGREGATE YARD SOIL SAMPLES
DEPARTMENT OF PUBLIC WORKS FACILITY
90 ROD HIGHWAY, FAIRFIELD, CT

OSPREY
ENVIRONMENTAL ENGINEERING, LLC
 146 East Main Street
 Clinton, CT 06413
 Phone (860) 669-8651

DRAWN BY: RJC
SCALE: 1"=100'
DATE: 04.23.18
REVISIONS:

Client: Mr. Robert Grabarek
Osprey Enviromental
146 East Main St
Clinton, CT 06413

Analytical Report

CET# 8040779



Report Date: May 01, 2018
Project: Fairfield
Project Number: AY

Connecticut Laboratory Certificate: PH 0116
Massachusetts laboratory Certificate: M-CT903



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET # : 8040779
Project: Fairfield
Project Number: AY

SAMPLE SUMMARY

The sample(s) were received at 20.2°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
B1	8040779-01	Soil	4/24/2018 10:00	04/24/2018

Analyte: Percent Solids [SM 2540 G]

Analyst: MTL

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8040779-01	B1	88	1.0	%	1	B8D3028	04/30/2018	04/30/2018 14:30	

Analyte: Total Lead [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8040779-01	B1	52	2.3	mg/kg dry	1	B8D3039	04/30/2018	04/30/2018 20:32	

Analyte: Total Arsenic [EPA 6010C]

Analyst: SS

Prep: EPA 3051A

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8040779-01	B1	26	1.1	mg/kg dry	1	B8D3039	04/30/2018	04/30/2018 20:32	

CET #: 8040779
 Project: Fairfield
 Project Number: AY

Client Sample ID B1

Lab ID: 8040779-01

Conn. Extractable TPH

Analyst: MJH

Method: CT-ETPH

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
ETPH	950	56	1	EPA 3550C	B8D2631	04/26/2018	04/27/2018 21:03	R
<i>Surrogate: Octacosane</i>	<i>82.9 %</i>	<i>50 - 150</i>			B8D2631	04/26/2018	<i>04/27/2018 21:03</i>	
R C18-C36 unknown								

PCBs by ASE

Analyst: MPC

Method: EPA 8082A

Matrix: Soil

Analyte	Result (mg/kg dry)	RL (mg/kg dry)	Dilution	Prep Method	Batch	Prepared	Date/Time Analyzed	Notes
PCB-1016	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1221	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1232	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1242	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1248	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1254	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1260	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1268	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
PCB-1262	ND	0.11	1	EPA 3545A	B8D2552	04/25/2018	04/26/2018 18:43	
<i>Surrogate: TCMX [1C]</i>	<i>106 %</i>	<i>30 - 150</i>			B8D2552	04/25/2018	<i>04/26/2018 18:43</i>	
<i>Surrogate: TCMX [2C]</i>	<i>118 %</i>	<i>30 - 150</i>			B8D2552	04/25/2018	<i>04/26/2018 18:43</i>	
<i>Surrogate: DCB [1C]</i>	<i>102 %</i>	<i>30 - 150</i>			B8D2552	04/25/2018	<i>04/26/2018 18:43</i>	
<i>Surrogate: DCB [2C]</i>	<i>92.0 %</i>	<i>30 - 150</i>			B8D2552	04/25/2018	<i>04/26/2018 18:43</i>	

All questions related to this report should be directed to David Ditta, Timothy Fusco, or Robert Blake at 203-377-9984.

Sincerely,

This technical report was reviewed by Timothy Fusco



David Ditta
Laboratory Director



Project Manager

Report Comments:

Sample Result Flags:

- E- The result is estimated, above the calibration range.
- H- The surrogate recovery is above the control limits.
- L- The surrogate recovery is below the control limits.
- B- The compound was detected in the laboratory blank.
- P- The Relative Percent Difference (RPD) of dual column analyses exceeds 40%.
- D- The RPD between the sample and the sample duplicate is high. Sample Homogeneity may be a problem.
- + - The Surrogate was diluted out.
- *C1- The Continuing Calibration did not meet method specifications and was biased low for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased low.
- *C2- The Continuing Calibration did not meet method specifications and was biased high for this analyte. Increased uncertainty is associated with the reported value which is likely to be biased high.
- *F1- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the low side.
- *F2- The Laboratory Control Sample recovery is outside of control limits. Reported value for this analyte is likely to be biased on the high side.
- I- The Analyte exceeds %RSD limits for the Initial Calibration. This is a non-directional bias.

All results met standard operating procedures unless indicated by a data qualifier next to a sample result, or a narration in the QC report.

For Percent Solids, if any of the following prep methods (3050B, 3540C, 3545A, 3550C, 5035 and 9013A) were used for samples pertaining to this report, the percent solids procedure is within that prep method.

Complete Environmental Testing is only responsible for the certified testing and is not directly responsible for the integrity of the sample before laboratory receipt.

ND is None Detected at or above the specified reporting limit

RL is the Reporting Limit.

All analyses were performed in house unless a Reference Laboratory is listed.

Samples will be disposed of 30 days after the report date.

CERTIFICATIONS

Certified Analyses included in this Report

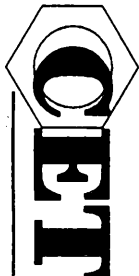
Analyte	Certifications
<i>ASTM D4059-0 in Oil</i>	
PCB-1016	CT,RI,MA,NY
PCB-1221	CT,RI,MA,NY
PCB-1232	CT,RI,MA,NY
PCB-1242	CT,RI,MA,NY
PCB-1248	CT,RI,MA,NY
PCB-1254	CT,RI,MA,NY
PCB-1260	CT,RI,MA,NY
PCB-1268	CT,RI,MA,NY
PCB-1262	NY
<i>CT-ETPH in Soil</i>	
ETPH	CT
<i>EPA 6010C in Soil</i>	
Lead	CT,NY
Arsenic	CT,NY
<i>EPA 8082A in Soil</i>	
PCB-1016	CT,NY
PCB-1221	CT,NY
PCB-1232	CT,NY
PCB-1242	CT,NY
PCB-1248	CT,NY
PCB-1254	CT,NY
PCB-1260	CT,NY
PCB-1268	CT,NY
PCB-1262	NY
<i>SM 2540 G in Soil</i>	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
MA	Massachusetts Laboratory Certification	M-CT903	06/30/2018
NY	New York Certification (NELAC)	11982	04/01/2019
RI	Rhode Island Certification	LAO 00227	09/30/2018



8040779



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatiles Soils Only:

Date and Time in Freezer

Client:

CET:

Additional Analysis

80 Lupes Drive
Stratford, CT 06615
Tel: (203) 377-9984
Fax: (203) 377-9952
e-mail: cet1@cellabs.com
Bottle Request e-mail: bottleorders@cellabs.com

Sample ID/Sample Depths
(include Units for any sample depths provided)

Collection Date/Time

Matrix
A-Air S-Soil
M-Water
DW-Drinking Water
C-Cassette
Solid
Wipe
Other (Specify)

Turnaround Time **
(check one)

Same Day *
Next Day *
Two Day *
Three Day *
Std (5-7 Days)

8260 CT List
8260 Aromatics
8260 Halogens
CT ETPH
8270 CT List
8270 PNAs
PCBs SOX ASE
Pesticides
8 RCRA
13 Priority Poll
15 CT DEP
Total
SPLP
TCLP
Dissolved
Field Filtered
Lab to Filter

Metals
Additional Analysis
As Pb
PCBS ACE
7 X

TOTAL # OF CONT.
NOTE #

PRESERVATIVE (Cl-HCl, N-HNO₃, S-H₂SO₄, Na-NaOH, C-Cool, O-Other)

CONTAINER TYPE (P-Plastic, G-Glass, V-Vial, O-Other)

Soil VOCs Only (M=MeOH B=Sulfate Sodium W=Water F=Vial Empty E=Encore)

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

RELINQUISHED BY: DATE/TIME RECEIVED BY: DATE/TIME

Client / Reporting Information

Company Name

Address

City State Zip

Report To: E-mail

Phone # Fax #

Project Information

Project: FRANKFIELD

PO #:

Location: AY

Project #:

CET Quote #

Collector(s): R Greenback

QA/QC Std Site Specific (MS/MSD) * RCP Pkg * DQAW *

Data Report PDF EDD - Specify Format Other

RSR Reporting Limits (check one) GA GB SWP Other

Laboratory Certification Needed (check one) CT NY RI MA

Temp Upon Receipt 20.2 °C Evidence of Cooling: Y N PAGE 1 OF 1

NOTES:
Meadow of 12/18/18 10:20a

* Additional charge may apply. ** TAT begins when the samples are received at the Lab and all issues are resolved. TAT for samples received after 3 p.m. will start on the next business day. All samples picked up by courier service will be considered next business day receipt for TAT purposes.