



OSPREY ENVIRONMENTAL ENGINEERING, LLC.

146 EAST MAIN STREET . CLINTON, CT 06413

PHONE: 860.669.8651 FAX: 860.664.3751

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

19 April 2018

Re: Soils Sampling, Grids E-M, Aggregate Recycling Yard Berm Project, Fairfield, CT
Collection date: 17 April 2018

Per your request, samples of soils from the above delineated site grids were collected to determine concentrations of constituents of concern (COCs) related to available environmental and health & safety standards and guidelines. Samples were composited from each grid and were collected in new glassware supplied by the laboratory and stored in compliance with standard sample preservation procedures. The composite samples were 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. Samples were analyzed for 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
(Residential/Industrial & Commercial) mg/kg	500/2500	10/10	400/1000
Grid E	780	5.1	32
Grid F	960	3.3	22
Grid G	770	3.3	31
Grid H	600	3.3	82
Grid I	1200	3.6	36
Grid J	1300	3.1	29
Grid K	1400	6.1	24
Grid L	940	3.4	36
Grid M	780	2.8	34

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

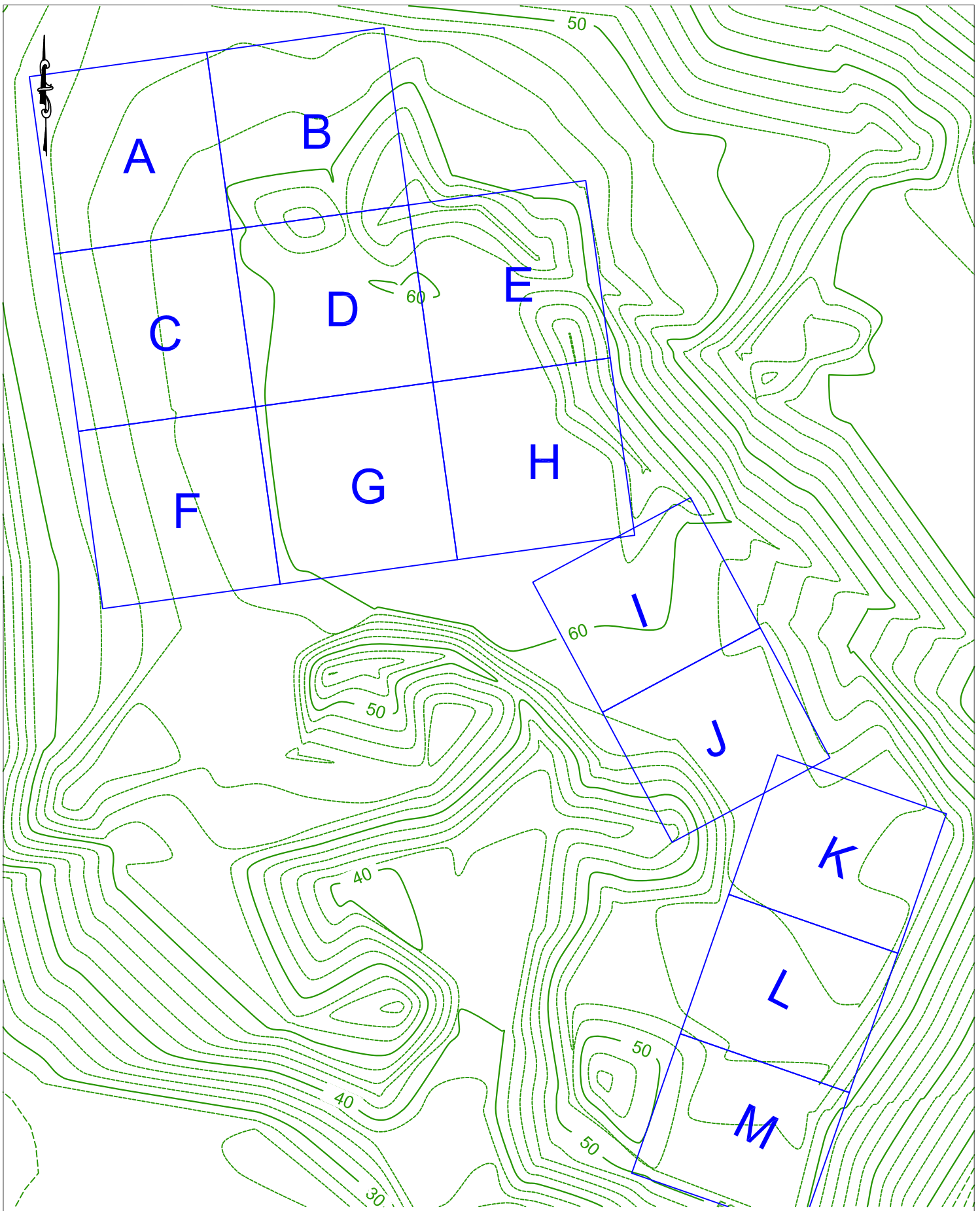
The samples all had ETPH above the Residential DEC but below the Industrial/Commercial DEC most likely due to the presence of asphalt fragments. Arsenic and lead were both below the Residential and the Industrial/Commercial DEC.

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-1

AGGREGATE YARD SAMPLING GRID
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"=40'
DATE: 04.17.18
REVISIONS:

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

Analytical Report

CET# 8040537



Report Date: April 19, 2018
Project: Fairfield
Project Number: AG YD

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



New York NELAP Accreditation: 11982
Rhode Island Certification: 199

CET # : 8040537

Project: Fairfield

Project Number: AG YD

SAMPLE SUMMARY

The sample(s) were received at 4.6°C.

This report contains analytical data associated with following samples only.

Sample ID	Laboratory ID	Matrix	Collection Date/Time	Receipt Date
E	8040537-01	Soil	4/17/2018 11:15	04/17/2018
F	8040537-02	Soil	4/17/2018 11:15	04/17/2018
G	8040537-03	Soil	4/17/2018 11:15	04/17/2018
H	8040537-04	Soil	4/17/2018 11:15	04/17/2018
I	8040537-05	Soil	4/17/2018 11:15	04/17/2018
J	8040537-06	Soil	4/17/2018 11:15	04/17/2018
K	8040537-07	Soil	4/17/2018 11:15	04/17/2018
L	8040537-08	Soil	4/17/2018 11:15	04/17/2018
M	8040537-09	Soil	4/17/2018 11:15	04/17/2018

CET # : 8040537
Project: Fairfield
Project Number: AG YD

Analyte: Percent Solids [SM 2540 G]

Analyst: EAS

Matrix: Soil

Laboratory ID	Client Sample ID	Result	RL	Units	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
8040537-01	E	89	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-02	F	88	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-03	G	89	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-04	H	88	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-05	I	88	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-06	J	89	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-07	K	90	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-08	L	87	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	
8040537-09	M	91	1.0	%	1	B8D1909	04/19/2018	04/19/2018 10:25	

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
8040537-01	E	32	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:00	
8040537-02	F	22	2.3	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:04	
8040537-03	G	31	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:08	
8040537-04	H	82	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:12	
8040537-05	I	36	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:17	
8040537-06	J	29	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:29	
8040537-07	K	24	2.0	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:34	
8040537-08	L	36	2.2	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:38	
8040537-09	M	34	2.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:42	

CET # : 8040537
 Project: Fairfield
 Project Number: AG YD

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
8040537-01	E	5.1	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:00	
8040537-02	F	3.3	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:04	
8040537-03	G	3.3	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:08	
8040537-04	H	3.3	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:12	
8040537-05	I	3.6	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:17	
8040537-06	J	3.1	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:29	
8040537-07	K	6.1	1.0	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:34	
8040537-08	L	3.4	1.1	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:38	
8040537-09	M	2.8	1.0	mg/kg dry	1	B8D1836	04/18/2018	04/19/2018 12:42	

Client Sample ID E

Lab ID: 8040537-01

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	780	56	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>108 %</i>		<i>50 - 150</i>		B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

Client Sample ID F

Lab ID: 8040537-02

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	960	55	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>110 %</i>		<i>50 - 150</i>		B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

CET # : 8040537
Project: Fairfield
Project Number: AG YD

Client Sample ID G

Lab ID: 8040537-03

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	770	56	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>111 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

Client Sample ID H

Lab ID: 8040537-04

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	600	55	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>114 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

Client Sample ID I

Lab ID: 8040537-05

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	1200	55	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>97.8 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

CET # : 8040537
Project: Fairfield
Project Number: AG YD

Client Sample ID J

Lab ID: 8040537-06

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	1300	54	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>112 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

Client Sample ID K

Lab ID: 8040537-07

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	1400	55	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>117 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

Client Sample ID L

Lab ID: 8040537-08

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	940	57	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>117 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

CET # : 8040537
Project: Fairfield
Project Number: AG YD

Client Sample ID M

Lab ID: 8040537-09

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	780	54	1	EPA 3550C	B8D1730	04/17/2018	04/19/2018 09:04	R
<i>Surrogate: Octacosane</i>	<i>118 %</i>	<i>50 - 150</i>			B8D1730	04/17/2018	<i>04/19/2018 09:04</i>	
R C18-C36 unknown								

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

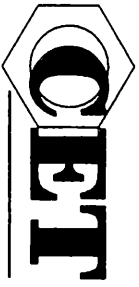
Analyte	Certifications
<i>CT-ETPH in Soil</i>	
ETPH	CT
<i>EPA 6010C in Soil</i>	
Lead	CT,NY
Arsenic	CT,NY
<i>SM 2540 G in Soil</i>	
Percent Solids	CT

Complete Environmental Testing operates under the following certifications and accreditations:

Code	Description	Number	Expires
CT	Connecticut Public Health	PH0116	09/30/2018
NY	New York Certification (NELAC)	11982	04/01/2019



8040537



COMPLETE ENVIRONMENTAL TESTING, INC.

CHAIN OF CUSTODY

Volatile 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)

Matrix	Turnaround Time ** (check one)
A-Air	Same Day *
S-Soil	Next Day *
W-Water	Two Day *
DW-Drinking Water	Three Day *
C-Caseinate	Std (5-7 Days)
Solid	
Wipe	
Other (Specify)	

Collection Date/Time	Matrix	Turnaround Time **	8260 CT List	Metals	TOTAL # OF CONT.
4/17/18 11:50 A	S		8260 Aromatics		NOTE #
			8260 Halogens		
			CT ETPH		
			8270 CT List		
			8270 PNAs		
			PCBs <input type="checkbox"/> SOX <input type="checkbox"/> ASE		
			Pesticides		
			8 RCRA		
			13 Priority Poll		
			15 CT DEP		
			Total		
			SPLP		
			TCLP		
			Dissolved		
			Field Filtered		
			Lab to Filter		

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=Meth B=Sodium W=Water F=Emply E=Encore)
Vial

RELINQUISHED BY: DATE/TIME RECEIVED BY:

RELINQUISHED BY: DATE/TIME RECEIVED BY:

RELINQUISHED BY: DATE/TIME RECEIVED BY:

Client / Reporting Information

Company Name: Ostry

Address: _____ State: _____ Zip: _____

City: _____ E-mail: _____

Report To: _____

Phone # _____ Fax # _____

NOTES:
For Thursday Afternoon

Project Information

Project: AK YD PO #: _____

Location: Fairfield Project #: _____

CET Quote # _____ Collector(s): R. Reynolds

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

Data Report PDF EDD - Specify Format _____ Other _____

RSR Reporting Limits (check one) GA GB SWP Other _____

Laboratory Certification Needed (check one) CT NV RI MA

Temp Upon Receipt 41.0 °C Evidence of Cooling: Y N PAGE _____ OF _____

* 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.