17G1171

http://www.contestlabs.com Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 5 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-2-1A	7/26/17	11:40		X	S	U	X													
02	WS-AOC13-SO-2-1B	↓	11:42		↓	↓	↓				X										
03	WS-AOC13-SO-2-2		11:44					X													
04	WS-AOC13-SO-2-3		11:46					X													
05	WS-AOC13-SO-3-1		11:30					X													
06	WS-AOC13-SO-3-2		11:32					X													
07	WS-AOC13-SO-3-3		11:34					X													
08	WS-AOC13-SO-7-1		12:00					X													
09	WS-AOC13-SO-7-2		12:02					X													
10	WS-AOC13-SO-7-3	↓	12:03		↓	↓	↓	X					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC13-SO-7-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

7/26/17 1703

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Email: info@contestlabs.com

17G1171

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
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ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs							# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-6-1A	7/26/17	11:50		X	S	U	X														
12	WS-AOC13-SO-6-1B		11:52									X										
13	WS-AOC13-SO-6-2		11:54					X														
14	WS-AOC13-SO-6-3		11:56					X														
15	WS-AOC13-SO-8-1		11:54					X														
16	WS-AOC13-SO-8-2		11:55					X														
17	WS-AOC13-SO-8-3A		11:56					X														
18	WS-AOC13-SO-8-3B		11:57									X	X									
19	WS-AOC13-SO-18-1		13:40					X														
20	WS-AOC13-SO-18-2		13:42					X														

WS-AOC-13-SO-18-2 ETPH analysis per client request ks 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
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[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
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Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature) SJC	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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7/26/17 1703

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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-	2 ✗	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4 2	Other Plastic		Other Glass		Encore	1
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 7/26/17 1703	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080617\A0806006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	396420	435896	-9
c - 10	1.64	401324	435896	-8
c - 12	2.37	415700	435896	-5
c - 14	3.04	427710	435896	-2
c - 16	3.65	441238	435896	1
c - 18	4.29	439544	435896	1
o-Terphenyl	4.57	487396	435896	
c - 20	4.89	449397	435896	3
c - 22	5.40	460053	435896	6
c - 24	5.84	432109	435896	-1
c - 26	6.23	457570	435896	5
c - 28	6.59	452358	435896	4
c - 30	6.93	450754	435896	3
c - 32	7.24	439754	435896	1
c - 34	7.54	441393	435896	1
c - 36	7.89	433119	435896	-1

* One compound allowed %D <= 50%

Samples

17G1252-02
17G1073-16@5X
17G1171-20@50X

D:\HPCHEM\1\DATA\A080617\A0806060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	395677	432339	-8
c - 10	1.64	400720	432339	-7
c - 12	2.37	413483	432339	-4
c - 14	3.05	425031	432339	-2
c - 16	3.66	438429	432339	1
c - 18	4.29	436657	432339	1
o-Terphenyl	4.57	485024	432339	
c - 20	4.89	444922	432339	3
c - 22	5.40	454087	432339	5
c - 24	5.84	425652	432339	-2
c - 26	6.24	450486	432339	4
c - 28	6.60	446427	432339	3
c - 30	6.93	446559	432339	3
c - 32	7.24	437863	432339	1
c - 34	7.54	438057	432339	1
c - 36	7.89	431036	432339	0

* One compound allowed %D </= 50%

Samples

17G1252-07@10X
17G1252-19@10X
17G1258-08@100X
17G1252-09
17G1258-04
17G1252-14

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1171

Laboratory Sample ID(s):

17G1171-01 thru 17G1171-20

Sample Date(s):

07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **08/09/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1172

Enclosed are results of analyses for samples received by the laboratory on July 26, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1172

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-8-3	17G1172-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-17-1	17G1172-02	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-13-SO-17-2	17G1172-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-17-3	17G1172-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-1	17G1172-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-2A	17G1172-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-11-2B	17G1172-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8260C	
WS-AOC-13-SO-11-3	17G1172-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-1	17G1172-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-2A	17G1172-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-13-2B	17G1172-11	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-13-3	17G1172-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-DUP-26	17G1172-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-DUP-27	17G1172-14	Soil		SM 2540G	
				SW-846 8082A	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1172-03[WS-AOC-13-SO-17-2]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1172-14[WS-AOC-13-SO-DUP-27]

Decachlorobiphenyl [2C]
17G1172-14[WS-AOC-13-SO-DUP-27]

Tetrachloro-m-xylene
17G1172-14[WS-AOC-13-SO-DUP-27]

Tetrachloro-m-xylene [2C]
17G1172-14[WS-AOC-13-SO-DUP-27]

SW-846 8260C

Qualifications:

V-34

Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Bromomethane
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Chloromethane
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Dichlorodifluoromethane (Freon 1:
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

Vinyl Chloride
17G1172-07[WS-AOC-13-SO-11-2B], B182770-BLK1, B182770-BS1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3 Sampled: 7/26/2017 13:44

Sample ID: 17G1172-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		8/4/17 12:27
Decachlorobiphenyl [2]	97.0	30-150		8/4/17 12:27
Tetrachloro-m-xylene [1]	83.7	30-150		8/4/17 12:27
Tetrachloro-m-xylene [2]	78.6	30-150		8/4/17 12:27

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-8-3 Sampled: 7/26/2017 13:44

Sample ID: 17G1172-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	1.3	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Acenaphthylene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Anthracene	1.9	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(a)anthracene	3.8	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(a)pyrene	3.2	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(b)fluoranthene	4.1	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(g,h,i)perylene	2.6	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Benzo(k)fluoranthene	1.5	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Chrysene	4.5	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Dibenz(a,h)anthracene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Fluoranthene	12	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Fluorene	ND	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Indeno(1,2,3-cd)pyrene	2.1	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
2-Methylnaphthalene	0.98	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Naphthalene	3.2	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Phenanthrene	2.7	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL
Pyrene	13	0.91	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 20:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	47.4	30-130		8/4/17 20:44
2-Fluorobiphenyl	46.7	30-130		8/4/17 20:44
p-Terphenyl-d14	67.3	30-130		8/4/17 20:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1221 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1232 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1242 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1248 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1254 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1260 [2]	0.54	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1262 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB
Aroclor-1268 [1]	ND	0.27	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		8/4/17 12:40
Decachlorobiphenyl [2]	99.6	30-150		8/4/17 12:40
Tetrachloro-m-xylene [1]	85.1	30-150		8/4/17 12:40
Tetrachloro-m-xylene [2]	78.0	30-150		8/4/17 12:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17G1172-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	37.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 12:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.1	30-150		8/4/17 12:53
Decachlorobiphenyl [2]	73.4	30-150		8/4/17 12:53
Tetrachloro-m-xylene [1]	71.1	30-150		8/4/17 12:53
Tetrachloro-m-xylene [2]	71.5	30-150		8/4/17 12:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	490	280	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 23:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 23:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-2 Sampled: 7/26/2017 14:06

Sample ID: 17G1172-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-3 Sampled: 7/26/2017 14:08

Sample ID: 17G1172-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1260 [2]	0.13	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/4/17 13:06
Decachlorobiphenyl [2]	81.2	30-150		8/4/17 13:06
Tetrachloro-m-xylene [1]	78.0	30-150		8/4/17 13:06
Tetrachloro-m-xylene [2]	75.0	30-150		8/4/17 13:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-17-3 Sampled: 7/26/2017 14:08

Sample ID: 17G1172-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-1 Sampled: 7/26/2017 14:25

Sample ID: 17G1172-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		8/4/17 13:18
Decachlorobiphenyl [2]	79.6	30-150		8/4/17 13:18
Tetrachloro-m-xylene [1]	81.5	30-150		8/4/17 13:18
Tetrachloro-m-xylene [2]	81.5	30-150		8/4/17 13:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-1 Sampled: 7/26/2017 14:25

Sample ID: 17G1172-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2A Sampled: 7/26/2017 14:26

Sample ID: 17G1172-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.8	30-150		8/4/17 13:31
Decachlorobiphenyl [2]	70.8	30-150		8/4/17 13:31
Tetrachloro-m-xylene [1]	83.0	30-150		8/4/17 13:31
Tetrachloro-m-xylene [2]	82.2	30-150		8/4/17 13:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2A Sampled: 7/26/2017 14:26

Sample ID: 17G1172-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	2.7	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Acrylonitrile	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Benzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromodichloromethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromoform	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Bromomethane	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Butanone (MEK)	ND	1.1	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
n-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
sec-Butylbenzene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
tert-Butylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Carbon Disulfide	ND	0.16	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Carbon Tetrachloride	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chlorodibromomethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloroethane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloroform	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Chloromethane	ND	0.27	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Chlorotoluene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
4-Chlorotoluene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dibromoethane (EDB)	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Dibromomethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,4-Dichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,4-Dichloro-2-butene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
cis-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,2-Dichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3-Dichloropropane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2,2-Dichloropropane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1-Dichloropropene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
cis-1,3-Dichloropropene	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
trans-1,3-Dichloropropene	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Ethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Hexachlorobutadiene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
2-Hexanone (MBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Isopropylbenzene (Cumene)	0.073	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Methylene Chloride	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Naphthalene	0.34	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
n-Propylbenzene	0.068	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Styrene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,1,2-Tetrachloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2,2-Tetrachloroethane	ND	0.027	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Tetrachloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Tetrahydrofuran	ND	0.54	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Toluene	0.066	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,3-Trichlorobenzene	ND	0.27	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,4-Trichlorobenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,1-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2-Trichloroethane	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Trichloroethylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Trichlorofluoromethane (Freon 11)	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,3-Trichloropropane	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,2,4-Trimethylbenzene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
1,3,5-Trimethylbenzene	0.065	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
Vinyl Chloride	ND	0.11	mg/Kg dry	1	V-34	SW-846 8260C	7/28/17	7/28/17 22:27	MFF
m+p Xylene	ND	0.11	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF
o-Xylene	ND	0.054	mg/Kg dry	1		SW-846 8260C	7/28/17	7/28/17 22:27	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	88.7	70-130		7/28/17 22:27
Toluene-d8	89.2	70-130		7/28/17 22:27
4-Bromofluorobenzene	105	70-130		7/28/17 22:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	190	130	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 23:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.9	50-150		8/4/17 23:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-2B Sampled: 7/26/2017 14:27

Sample ID: 17G1172-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-3 Sampled: 7/26/2017 14:28

Sample ID: 17G1172-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		8/4/17 13:44
Decachlorobiphenyl [2]	66.8	30-150		8/4/17 13:44
Tetrachloro-m-xylene [1]	73.5	30-150		8/4/17 13:44
Tetrachloro-m-xylene [2]	73.9	30-150		8/4/17 13:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-11-3 Sampled: 7/26/2017 14:28

Sample ID: 17G1172-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-1 Sampled: 7/26/2017 14:42

Sample ID: 17G1172-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 13:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		8/4/17 13:57
Decachlorobiphenyl [2]	66.7	30-150		8/4/17 13:57
Tetrachloro-m-xylene [1]	78.2	30-150		8/4/17 13:57
Tetrachloro-m-xylene [2]	79.3	30-150		8/4/17 13:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-1 Sampled: 7/26/2017 14:42

Sample ID: 17G1172-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2A Sampled: 7/26/2017 14:43

Sample ID: 17G1172-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.1	30-150		8/4/17 14:10
Decachlorobiphenyl [2]	72.9	30-150		8/4/17 14:10
Tetrachloro-m-xylene [1]	78.7	30-150		8/4/17 14:10
Tetrachloro-m-xylene [2]	80.1	30-150		8/4/17 14:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2A Sampled: 7/26/2017 14:43

Sample ID: 17G1172-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2B Sampled: 7/26/2017 14:44

Sample ID: 17G1172-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	73	12	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/5/17 0:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.4	50-150		8/5/17 0:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-2B Sampled: 7/26/2017 14:44

Sample ID: 17G1172-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-3 Sampled: 7/26/2017 14:45

Sample ID: 17G1172-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.9	30-150		8/4/17 14:23
Decachlorobiphenyl [2]	46.0	30-150		8/4/17 14:23
Tetrachloro-m-xylene [1]	53.7	30-150		8/4/17 14:23
Tetrachloro-m-xylene [2]	52.9	30-150		8/4/17 14:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-13-3 Sampled: 7/26/2017 14:45

Sample ID: 17G1172-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-26 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/2/17	8/4/17 14:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.0	30-150		8/4/17 14:36
Decachlorobiphenyl [2]	45.6	30-150		8/4/17 14:36
Tetrachloro-m-xylene [1]	52.6	30-150		8/4/17 14:36
Tetrachloro-m-xylene [2]	54.6	30-150		8/4/17 14:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-26 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1260 [1]	5.2	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/2/17	8/4/17 16:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/4/17 16:45
Decachlorobiphenyl [2]	*	30-150	S-01	8/4/17 16:45
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/4/17 16:45
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/4/17 16:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1172

Date Received: 7/26/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17G1172-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1172-03 [WS-AOC-13-SO-17-2]	B183209	30.0	1.00	08/03/17
17G1172-07 [WS-AOC-13-SO-11-2B]	B183209	30.0	1.00	08/03/17
17G1172-11 [WS-AOC-13-SO-13-2B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1172-01 [WS-AOC-13-SO-8-3]	B182889	07/31/17
17G1172-02 [WS-AOC-13-SO-17-1]	B182889	07/31/17
17G1172-03 [WS-AOC-13-SO-17-2]	B182889	07/31/17
17G1172-04 [WS-AOC-13-SO-17-3]	B182889	07/31/17
17G1172-05 [WS-AOC-13-SO-11-1]	B182889	07/31/17
17G1172-06 [WS-AOC-13-SO-11-2A]	B182889	07/31/17
17G1172-07 [WS-AOC-13-SO-11-2B]	B182889	07/31/17
17G1172-08 [WS-AOC-13-SO-11-3]	B182889	07/31/17
17G1172-09 [WS-AOC-13-SO-13-1]	B182889	07/31/17
17G1172-10 [WS-AOC-13-SO-13-2A]	B182889	07/31/17
17G1172-11 [WS-AOC-13-SO-13-2B]	B182889	07/31/17
17G1172-12 [WS-AOC-13-SO-13-3]	B182889	07/31/17
17G1172-13 [WS-AOC-13-SO-DUP-26]	B182889	07/31/17
17G1172-14 [WS-AOC-13-SO-DUP-27]	B182889	07/31/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1172-01 [WS-AOC-13-SO-8-3]	B183181	10.0	10.0	08/02/17
17G1172-02 [WS-AOC-13-SO-17-1]	B183181	10.0	10.0	08/02/17
17G1172-03 [WS-AOC-13-SO-17-2]	B183181	10.0	10.0	08/02/17
17G1172-04 [WS-AOC-13-SO-17-3]	B183181	10.0	10.0	08/02/17
17G1172-05 [WS-AOC-13-SO-11-1]	B183181	10.0	10.0	08/02/17
17G1172-06 [WS-AOC-13-SO-11-2A]	B183181	10.0	10.0	08/02/17
17G1172-08 [WS-AOC-13-SO-11-3]	B183181	10.0	10.0	08/02/17
17G1172-09 [WS-AOC-13-SO-13-1]	B183181	10.0	10.0	08/02/17
17G1172-10 [WS-AOC-13-SO-13-2A]	B183181	10.0	10.0	08/02/17
17G1172-12 [WS-AOC-13-SO-13-3]	B183181	10.0	10.0	08/02/17
17G1172-13 [WS-AOC-13-SO-DUP-26]	B183181	10.0	10.0	08/02/17
17G1172-14 [WS-AOC-13-SO-DUP-27]	B183181	10.0	10.0	08/02/17

Prep Method: SW-846 5035/5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Sample Amount(g)	Methanol Volume(mL)	Methanol Aliquot(mL)	Final Volume(mL)	Date
17G1172-07 [WS-AOC-13-SO-11-2B]	B182770	7.68	6.57	1	50	07/28/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1172-02 [WS-AOC-13-SO-17-1]	B183204	15.0	1.00	08/03/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Acetone	ND	2.5	mg/Kg wet							
Acrylonitrile	ND	0.25	mg/Kg wet							
Benzene	ND	0.050	mg/Kg wet							
Bromobenzene	ND	0.050	mg/Kg wet							
Bromodichloromethane	ND	0.050	mg/Kg wet							
Bromoform	ND	0.050	mg/Kg wet							
Bromomethane	ND	0.10	mg/Kg wet							V-34
2-Butanone (MEK)	ND	1.0	mg/Kg wet							
n-Butylbenzene	ND	0.050	mg/Kg wet							
sec-Butylbenzene	ND	0.050	mg/Kg wet							
tert-Butylbenzene	ND	0.050	mg/Kg wet							
Carbon Disulfide	ND	0.15	mg/Kg wet							
Carbon Tetrachloride	ND	0.050	mg/Kg wet							
Chlorobenzene	ND	0.050	mg/Kg wet							
Chlorodibromomethane	ND	0.025	mg/Kg wet							
Chloroethane	ND	0.10	mg/Kg wet							
Chloroform	ND	0.10	mg/Kg wet							
Chloromethane	ND	0.10	mg/Kg wet							V-34
2-Chlorotoluene	ND	0.050	mg/Kg wet							
4-Chlorotoluene	ND	0.050	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.25	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.025	mg/Kg wet							
Dibromomethane	ND	0.050	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.050	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.050	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.10	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.10	mg/Kg wet							V-34
1,1-Dichloroethane	ND	0.050	mg/Kg wet							
1,2-Dichloroethane	ND	0.050	mg/Kg wet							
1,1-Dichloroethylene	ND	0.050	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.050	mg/Kg wet							
1,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,3-Dichloropropane	ND	0.025	mg/Kg wet							
2,2-Dichloropropane	ND	0.050	mg/Kg wet							
1,1-Dichloropropene	ND	0.10	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.025	mg/Kg wet							
Ethylbenzene	ND	0.050	mg/Kg wet							
Hexachlorobutadiene	ND	0.050	mg/Kg wet							
2-Hexanone (MBK)	ND	0.50	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.050	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.050	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.050	mg/Kg wet							
Methylene Chloride	ND	0.25	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.50	mg/Kg wet							
Naphthalene	ND	0.10	mg/Kg wet							
n-Propylbenzene	ND	0.050	mg/Kg wet							
Styrene	ND	0.050	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.050	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.025	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
Blank (B182770-BLK1)				Prepared & Analyzed: 07/28/17						
Tetrachloroethylene	ND	0.050	mg/Kg wet							
Tetrahydrofuran	ND	0.50	mg/Kg wet							
Toluene	ND	0.050	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.25	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.050	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.050	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.050	mg/Kg wet							
Trichloroethylene	ND	0.050	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.10	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.10	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.050	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.050	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.050	mg/Kg wet							
Vinyl Chloride	ND	0.10	mg/Kg wet							V-34
m+p Xylene	ND	0.10	mg/Kg wet							
o-Xylene	ND	0.050	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0308*		mg/Kg wet	0.0250		123	70-130			
Surrogate: Toluene-d8	*0.0230*		mg/Kg wet	0.0250		92.0	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0204*		mg/Kg wet	0.0250		81.6	70-130			
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
Acetone	0.107	0.057	mg/Kg wet	0.113		94.8	70-130			
Acrylonitrile	0.0119	0.0057	mg/Kg wet	0.0113		105	70-130			
Benzene	0.0122	0.0011	mg/Kg wet	0.0113		107	70-130			
Bromobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.7	70-130			
Bromodichloromethane	0.0112	0.0011	mg/Kg wet	0.0113		99.1	70-130			
Bromoform	0.0104	0.0011	mg/Kg wet	0.0113		91.8	70-130			
Bromomethane	0.0112	0.0023	mg/Kg wet	0.0113		99.2	70-130			V-34
2-Butanone (MEK)	0.122	0.023	mg/Kg wet	0.113		108	70-130			
n-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		94.9	70-130			
sec-Butylbenzene	0.0108	0.0011	mg/Kg wet	0.0113		95.0	70-130			
tert-Butylbenzene	0.0105	0.0011	mg/Kg wet	0.0113		92.4	70-130			
Carbon Disulfide	0.110	0.0034	mg/Kg wet	0.113		97.4	70-130			
Carbon Tetrachloride	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
Chlorobenzene	0.0111	0.0011	mg/Kg wet	0.0113		97.6	70-130			
Chlorodibromomethane	0.0115	0.00057	mg/Kg wet	0.0113		101	70-130			
Chloroethane	0.0110	0.0023	mg/Kg wet	0.0113		97.1	70-130			
Chloroform	0.0115	0.0023	mg/Kg wet	0.0113		102	70-130			
Chloromethane	0.0128	0.0023	mg/Kg wet	0.0113		112	70-130			V-34
2-Chlorotoluene	0.0112	0.0011	mg/Kg wet	0.0113		98.9	70-130			
4-Chlorotoluene	0.0111	0.0011	mg/Kg wet	0.0113		98.3	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.00941	0.0057	mg/Kg wet	0.0113		83.0	70-130			
1,2-Dibromoethane (EDB)	0.0111	0.00057	mg/Kg wet	0.0113		97.6	70-130			
Dibromomethane	0.0106	0.0011	mg/Kg wet	0.0113		93.3	70-130			
1,2-Dichlorobenzene	0.0109	0.0011	mg/Kg wet	0.0113		95.9	70-130			
1,3-Dichlorobenzene	0.0113	0.0011	mg/Kg wet	0.0113		100	70-130			
1,4-Dichlorobenzene	0.0112	0.0011	mg/Kg wet	0.0113		98.5	70-130			
trans-1,4-Dichloro-2-butene	0.00979	0.0023	mg/Kg wet	0.0113		86.4	70-130			
Dichlorodifluoromethane (Freon 12)	0.0124	0.0023	mg/Kg wet	0.0113		109	70-130			V-34
1,1-Dichloroethane	0.0123	0.0011	mg/Kg wet	0.0113		109	70-130			
1,2-Dichloroethane	0.0110	0.0011	mg/Kg wet	0.0113		96.7	70-130			
1,1-Dichloroethylene	0.0119	0.0011	mg/Kg wet	0.0113		105	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182770 - SW-846 5035/5030B										
LCS (B182770-BS1)				Prepared & Analyzed: 07/28/17						
cis-1,2-Dichloroethylene	0.0117	0.0011	mg/Kg wet	0.0113		103	70-130			
trans-1,2-Dichloroethylene	0.0113	0.0011	mg/Kg wet	0.0113		99.6	70-130			
1,2-Dichloropropane	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,3-Dichloropropane	0.0109	0.00057	mg/Kg wet	0.0113		96.4	70-130			
2,2-Dichloropropane	0.0128	0.0011	mg/Kg wet	0.0113		113	70-130			
1,1-Dichloropropene	0.0109	0.0023	mg/Kg wet	0.0113		96.4	70-130			
cis-1,3-Dichloropropene	0.0105	0.00057	mg/Kg wet	0.0113		92.6	70-130			
trans-1,3-Dichloropropene	0.0106	0.00057	mg/Kg wet	0.0113		93.5	70-130			
Ethylbenzene	0.0110	0.0011	mg/Kg wet	0.0113		96.8	70-130			
Hexachlorobutadiene	0.0109	0.0011	mg/Kg wet	0.0113		96.6	70-130			
2-Hexanone (MBK)	0.103	0.011	mg/Kg wet	0.113		91.3	70-130			
Isopropylbenzene (Cumene)	0.00934	0.0011	mg/Kg wet	0.0113		82.4	70-130			
p-Isopropyltoluene (p-Cymene)	0.00962	0.0011	mg/Kg wet	0.0113		84.9	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0104	0.0011	mg/Kg wet	0.0113		91.7	70-130			
Methylene Chloride	0.0135	0.0057	mg/Kg wet	0.0113		119	70-130			
4-Methyl-2-pentanone (MIBK)	0.107	0.011	mg/Kg wet	0.113		94.5	70-130			
Naphthalene	0.00796	0.0023	mg/Kg wet	0.0113		70.2	70-130			
n-Propylbenzene	0.0101	0.0011	mg/Kg wet	0.0113		89.0	70-130			
Styrene	0.00878	0.0011	mg/Kg wet	0.0113		77.5	70-130			
1,1,1,2-Tetrachloroethane	0.0115	0.0011	mg/Kg wet	0.0113		101	70-130			
1,1,2,2-Tetrachloroethane	0.0129	0.00057	mg/Kg wet	0.0113		114	70-130			
Tetrachloroethylene	0.0111	0.0011	mg/Kg wet	0.0113		97.8	70-130			
Tetrahydrofuran	0.0113	0.011	mg/Kg wet	0.0113		99.6	70-130			
Toluene	0.0114	0.0011	mg/Kg wet	0.0113		101	70-130			
1,2,3-Trichlorobenzene	0.00996	0.0057	mg/Kg wet	0.0113		87.9	70-130			
1,2,4-Trichlorobenzene	0.00924	0.0011	mg/Kg wet	0.0113		81.5	70-130			
1,1,1-Trichloroethane	0.0116	0.0011	mg/Kg wet	0.0113		103	70-130			
1,1,2-Trichloroethane	0.0113	0.0011	mg/Kg wet	0.0113		99.8	70-130			
Trichloroethylene	0.00980	0.0011	mg/Kg wet	0.0113		86.5	70-130			
Trichlorofluoromethane (Freon 11)	0.0111	0.0023	mg/Kg wet	0.0113		97.6	70-130			
1,2,3-Trichloropropane	0.0108	0.0023	mg/Kg wet	0.0113		95.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0116	0.0011	mg/Kg wet	0.0113		102	70-130			
1,2,4-Trimethylbenzene	0.0100	0.0011	mg/Kg wet	0.0113		88.4	70-130			
1,3,5-Trimethylbenzene	0.00967	0.0011	mg/Kg wet	0.0113		85.3	70-130			
Vinyl Chloride	0.0123	0.0023	mg/Kg wet	0.0113		108	70-130			V-34
m+p Xylene	0.0202	0.0023	mg/Kg wet	0.0227		89.1	70-130			
o-Xylene	0.00856	0.0011	mg/Kg wet	0.0113		75.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0295*		mg/Kg wet	0.0283		104	70-130			
Surrogate: Toluene-d8	*0.0297*		mg/Kg wet	0.0283		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0295*		mg/Kg wet	0.0283		104	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183181 - SW-846 3540C										
Blank (B183181-BLK1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.186*		mg/Kg wet	0.200		93.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.190*		mg/Kg wet	0.200		95.1	30-150			
LCS (B183181-BS1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.9	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.3	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg wet	0.200		98.8	30-150			
LCS Dup (B183181-BSD1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.8	40-140	3.36	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140	1.55	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.5	40-140	2.09	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.2	40-140	1.93	30	
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183181 - SW-846 3540C										
Matrix Spike (B183181-MS1)		**Source: 17G1172-01**		Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.32	0.14	mg/Kg dry	0.283	ND	113	40-140			
Aroclor-1016 [2C]	0.32	0.14	mg/Kg dry	0.283	ND	113	40-140			
Aroclor-1260	0.27	0.14	mg/Kg dry	0.283	ND	94.6	40-140			
Aroclor-1260 [2C]	0.29	0.14	mg/Kg dry	0.283	ND	103	40-140			
Surrogate: Decachlorobiphenyl	*0.220*		mg/Kg dry	0.283		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.245*		mg/Kg dry	0.283		86.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.231*		mg/Kg dry	0.283		81.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.225*		mg/Kg dry	0.283		79.7	30-150			
Matrix Spike Dup (B183181-MSD1)		**Source: 17G1172-01**		Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.30	0.14	mg/Kg dry	0.283	ND	106	40-140	6.12	50	
Aroclor-1016 [2C]	0.31	0.14	mg/Kg dry	0.283	ND	111	40-140	2.16	50	
Aroclor-1260	0.27	0.14	mg/Kg dry	0.283	ND	94.2	40-140	0.474	50	
Aroclor-1260 [2C]	0.30	0.14	mg/Kg dry	0.283	ND	105	40-140	1.69	50	
Surrogate: Decachlorobiphenyl	*0.224*		mg/Kg dry	0.283		79.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.270*		mg/Kg dry	0.283		95.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.243*		mg/Kg dry	0.283		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.229*		mg/Kg dry	0.283		81.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			
Matrix Spike (B183209-MS1)	**Source: 17G1172-11**			Prepared: 08/03/17 Analyzed: 08/05/17						
CT ETPH	111	12	mg/Kg dry	38.9	72.7	98.9	50-150			
Surrogate: o-Terphenyl	*3.19*		mg/Kg dry	3.89		82.1	50-150			
Matrix Spike Dup (B183209-MSD1)	**Source: 17G1172-11**			Prepared: 08/03/17 Analyzed: 08/05/17						
CT ETPH	114	12	mg/Kg dry	38.9	72.7	107	50-150	2.68	30	
Surrogate: o-Terphenyl	*3.23*		mg/Kg dry	3.89		83.2	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182889 - % Solids										
Duplicate (B182889-DUP8)		**Source: 17G1172-11**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	80.5		% Wt		85.8			6.37	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-17-1

Lab Sample ID: 17G1172-02 Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.54	7.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-DUP-27

Lab Sample ID: 17G1172-14 Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.2	
	2	0.000	-0.030	0.030	5.4	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183181-BS1

Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD4

Instrument ID (2): ECD4

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183181-BSD1 Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD4 Instrument ID (2): ECD4

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183181-MS1 Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.32	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.29	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183181-MSD1 Date(s) Analyzed: 08/04/2017 08/04/2017

Instrument ID (1): ECD3 Instrument ID (2): ECD3

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.30	10.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-34	Initial calibration verification (ICV) did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NY,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1172

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 7 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-8-3	7/26/17	13:44		X	S	U	X								
02	WS-AOC13-SO-17-1		14:04					X	X							
03	WS-AOC13-SO-17-2		14:06					X								
04	WS-AOC13-SO-17-3		14:08					X								
05	WS-AOC13-SO-11-1		14:25					X								
06	WS-AOC13-SO-11-2A		14:26					X								
07	WS-AOC13-SO-11-2B		14:27							X			X			
08	WS-AOC13-SO-11-3		14:28					X								
09	WS-AOC13-SO-13-1		14:42					X								
10	WS-AOC13-SO-13-2A		14:43					X								

WS-AOC-13-SO-17-2 ETPH analysis per client request KS 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1030
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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7/26/17 1703

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con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

17G1172

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSRs 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-13-2B	7/26/17	14:44		X	S	U			X						
12	WS-AOC13-SO-13-3		14:45					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-13-2B (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:53
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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7/26/17 1703

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPHs	SVOCs	~~RCRA Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
13	WS-AOC13-SO-DUP-26	7/26/17			X	S	U	X									
14	WS-AOC13-SO-DUP-27							X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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7/26/17 1703

Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp -

Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		7/26/17 1703	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1172

Laboratory Sample ID(s):

17G1172-01 thru 17G1172-14

Sample Date(s):

07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8260C, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/07/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
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August 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1252

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1252

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-16-1	17G1252-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-16-2	17G1252-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
WS-AOC-13-SO-16-3	17G1252-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-1	17G1252-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-2	17G1252-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-3A	17G1252-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-14-3B	17G1252-07	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-15-1	17G1252-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-15-2	17G1252-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-15-3	17G1252-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-1	17G1252-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-2	17G1252-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-3A	17G1252-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-12-3B	17G1252-14	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-20-1	17G1252-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-2	17G1252-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-3	17G1252-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-20-4A	17G1252-18	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1252

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-20-4B	17G1252-19	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-13-SO-19-1	17G1252-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-1 Sampled: 7/26/2017 15:00

Sample ID: 17G1252-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 17:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		8/10/17 17:50
Decachlorobiphenyl [2]	76.3	30-150		8/10/17 17:50
Tetrachloro-m-xylene [1]	80.7	30-150		8/10/17 17:50
Tetrachloro-m-xylene [2]	78.6	30-150		8/10/17 17:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-1 Sampled: 7/26/2017 15:00

Sample ID: 17G1252-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	66.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		8/10/17 18:08
Decachlorobiphenyl [2]	87.7	30-150		8/10/17 18:08
Tetrachloro-m-xylene [1]	81.8	30-150		8/10/17 18:08
Tetrachloro-m-xylene [2]	80.1	30-150		8/10/17 18:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	26	18	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 19:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.4	50-150		8/7/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Arsenic	9.6	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Barium	40	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Beryllium	ND	0.45	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Cadmium	ND	0.45	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Chromium	34	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Copper	20	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Lead	13	1.3	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Mercury	ND	0.045	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:06	TJK
Nickel	19	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Selenium	ND	8.9	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Silver	ND	0.89	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Thallium	ND	4.5	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Vanadium	41	1.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW
Zinc	57	1.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:21	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17G1252-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	56.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-3 Sampled: 7/26/2017 15:04

Sample ID: 17G1252-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.7	30-150		8/10/17 18:25
Decachlorobiphenyl [2]	88.6	30-150		8/10/17 18:25
Tetrachloro-m-xylene [1]	79.7	30-150		8/10/17 18:25
Tetrachloro-m-xylene [2]	80.0	30-150		8/10/17 18:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-16-3 Sampled: 7/26/2017 15:04

Sample ID: 17G1252-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-1 Sampled: 7/26/2017 15:07

Sample ID: 17G1252-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 18:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	39.1	30-150		8/10/17 18:43
Decachlorobiphenyl [2]	44.9	30-150		8/10/17 18:43
Tetrachloro-m-xylene [1]	56.3	30-150		8/10/17 18:43
Tetrachloro-m-xylene [2]	57.6	30-150		8/10/17 18:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-1 Sampled: 7/26/2017 15:07

Sample ID: 17G1252-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-2 Sampled: 7/26/2017 15:08

Sample ID: 17G1252-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.7	30-150		8/10/17 19:01
Decachlorobiphenyl [2]	66.7	30-150		8/10/17 19:01
Tetrachloro-m-xylene [1]	79.7	30-150		8/10/17 19:01
Tetrachloro-m-xylene [2]	83.5	30-150		8/10/17 19:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-2 Sampled: 7/26/2017 15:08

Sample ID: 17G1252-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3A Sampled: 7/26/2017 15:09

Sample ID: 17G1252-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.9	30-150		8/10/17 19:18
Decachlorobiphenyl [2]	62.4	30-150		8/10/17 19:18
Tetrachloro-m-xylene [1]	79.2	30-150		8/10/17 19:18
Tetrachloro-m-xylene [2]	81.5	30-150		8/10/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3A Sampled: 7/26/2017 15:09

Sample ID: 17G1252-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3B Sampled: 7/26/2017 15:10

Sample ID: 17G1252-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	760	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/6/17 22:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		8/6/17 22:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-14-3B Sampled: 7/26/2017 15:10

Sample ID: 17G1252-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-1 Sampled: 7/26/2017 15:20

Sample ID: 17G1252-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1248 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1254 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1260 [2]	0.74	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 19:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.2	30-150		8/10/17 19:36
Decachlorobiphenyl [2]	72.9	30-150		8/10/17 19:36
Tetrachloro-m-xylene [1]	70.4	30-150		8/10/17 19:36
Tetrachloro-m-xylene [2]	75.4	30-150		8/10/17 19:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-1 Sampled: 7/26/2017 15:20

Sample ID: 17G1252-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	34.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		8/10/17 20:41
Decachlorobiphenyl [2]	77.6	30-150		8/10/17 20:41
Tetrachloro-m-xylene [1]	74.9	30-150		8/10/17 20:41
Tetrachloro-m-xylene [2]	75.5	30-150		8/10/17 20:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	32	17	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 19:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.9	50-150		8/7/17 19:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-2 Sampled: 7/26/2017 15:22

Sample ID: 17G1252-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	59.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-3 Sampled: 7/26/2017 15:24

Sample ID: 17G1252-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 20:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.0	30-150		8/10/17 20:59
Decachlorobiphenyl [2]	53.6	30-150		8/10/17 20:59
Tetrachloro-m-xylene [1]	54.9	30-150		8/10/17 20:59
Tetrachloro-m-xylene [2]	54.8	30-150		8/10/17 20:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-15-3 Sampled: 7/26/2017 15:24

Sample ID: 17G1252-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.2		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-1 Sampled: 7/26/2017 15:34

Sample ID: 17G1252-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.8	30-150		8/10/17 21:16
Decachlorobiphenyl [2]	64.7	30-150		8/10/17 21:16
Tetrachloro-m-xylene [1]	67.9	30-150		8/10/17 21:16
Tetrachloro-m-xylene [2]	68.7	30-150		8/10/17 21:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-1 Sampled: 7/26/2017 15:34

Sample ID: 17G1252-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-2 Sampled: 7/26/2017 15:35

Sample ID: 17G1252-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:34	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		8/10/17 21:34
Decachlorobiphenyl [2]	93.5	30-150		8/10/17 21:34
Tetrachloro-m-xylene [1]	88.0	30-150		8/10/17 21:34
Tetrachloro-m-xylene [2]	90.3	30-150		8/10/17 21:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-2 Sampled: 7/26/2017 15:35

Sample ID: 17G1252-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3A Sampled: 7/26/2017 15:36

Sample ID: 17G1252-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 21:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		8/10/17 21:52
Decachlorobiphenyl [2]	78.6	30-150		8/10/17 21:52
Tetrachloro-m-xylene [1]	74.1	30-150		8/10/17 21:52
Tetrachloro-m-xylene [2]	75.0	30-150		8/10/17 21:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3A Sampled: 7/26/2017 15:36

Sample ID: 17G1252-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3B Sampled: 7/26/2017 15:37

Sample ID: 17G1252-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	60	14	mg/Kg dry	1		CTDEP ETPH	8/7/17	8/7/17 21:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.6	50-150		8/7/17 21:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-12-3B Sampled: 7/26/2017 15:37

Sample ID: 17G1252-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-1 Sampled: 7/27/2017 09:12

Sample ID: 17G1252-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1260 [1]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.2	30-150		8/10/17 22:09
Decachlorobiphenyl [2]	69.9	30-150		8/10/17 22:09
Tetrachloro-m-xylene [1]	73.8	30-150		8/10/17 22:09
Tetrachloro-m-xylene [2]	73.5	30-150		8/10/17 22:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-1 Sampled: 7/27/2017 09:12

Sample ID: 17G1252-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-2 Sampled: 7/27/2017 09:13

Sample ID: 17G1252-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.2	30-150		8/10/17 22:27
Decachlorobiphenyl [2]	93.2	30-150		8/10/17 22:27
Tetrachloro-m-xylene [1]	92.3	30-150		8/10/17 22:27
Tetrachloro-m-xylene [2]	95.3	30-150		8/10/17 22:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-2 Sampled: 7/27/2017 09:13

Sample ID: 17G1252-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-3 Sampled: 7/27/2017 09:14

Sample ID: 17G1252-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 22:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.9	30-150		8/10/17 22:44
Decachlorobiphenyl [2]	88.9	30-150		8/10/17 22:44
Tetrachloro-m-xylene [1]	88.7	30-150		8/10/17 22:44
Tetrachloro-m-xylene [2]	92.1	30-150		8/10/17 22:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-3 Sampled: 7/27/2017 09:14

Sample ID: 17G1252-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4A Sampled: 7/27/2017 09:15

Sample ID: 17G1252-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.9	30-150		8/10/17 23:02
Decachlorobiphenyl [2]	59.2	30-150		8/10/17 23:02
Tetrachloro-m-xylene [1]	66.5	30-150		8/10/17 23:02
Tetrachloro-m-xylene [2]	66.6	30-150		8/10/17 23:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4A Sampled: 7/27/2017 09:15

Sample ID: 17G1252-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4B Sampled: 7/27/2017 09:16

Sample ID: 17G1252-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	780	250	mg/Kg dry	10		CTDEP ETPH	8/7/17	8/7/17 21:39	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.9	50-150		8/7/17 21:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-20-4B Sampled: 7/27/2017 09:16

Sample ID: 17G1252-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-19-1 Sampled: 7/27/2017 09:04

Sample ID: 17G1252-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1260 [2]	0.18	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/10/17 23:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	48.2	30-150		8/10/17 23:20
Decachlorobiphenyl [2]	52.9	30-150		8/10/17 23:20
Tetrachloro-m-xylene [1]	63.8	30-150		8/10/17 23:20
Tetrachloro-m-xylene [2]	62.4	30-150		8/10/17 23:20

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1252

Date Received: 7/27/2017

Field Sample #: WS-AOC-13-SO-19-1 Sampled: 7/27/2017 09:04

Sample ID: 17G1252-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-07 [WS-AOC-13-SO-14-3B]	B183288	30.0	1.00	08/03/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02RE1 [WS-AOC-13-SO-16-2]	B183484	30.0	1.00	08/07/17
17G1252-09RE1 [WS-AOC-13-SO-15-2]	B183484	30.0	1.00	08/07/17
17G1252-14RE1 [WS-AOC-13-SO-12-3B]	B183484	30.0	1.00	08/07/17
17G1252-19RE1 [WS-AOC-13-SO-20-4B]	B183484	30.0	2.00	08/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1252-01 [WS-AOC-13-SO-16-1]	B183218	08/03/17
17G1252-02 [WS-AOC-13-SO-16-2]	B183218	08/03/17
17G1252-03 [WS-AOC-13-SO-16-3]	B183218	08/03/17
17G1252-04 [WS-AOC-13-SO-14-1]	B183218	08/03/17
17G1252-05 [WS-AOC-13-SO-14-2]	B183218	08/03/17
17G1252-06 [WS-AOC-13-SO-14-3A]	B183218	08/03/17
17G1252-07 [WS-AOC-13-SO-14-3B]	B183218	08/03/17
17G1252-08 [WS-AOC-13-SO-15-1]	B183218	08/03/17
17G1252-09 [WS-AOC-13-SO-15-2]	B183218	08/03/17
17G1252-10 [WS-AOC-13-SO-15-3]	B183218	08/03/17
17G1252-11 [WS-AOC-13-SO-12-1]	B183218	08/03/17
17G1252-12 [WS-AOC-13-SO-12-2]	B183218	08/03/17
17G1252-13 [WS-AOC-13-SO-12-3A]	B183218	08/03/17
17G1252-14 [WS-AOC-13-SO-12-3B]	B183218	08/03/17
17G1252-15 [WS-AOC-13-SO-20-1]	B183218	08/03/17
17G1252-16 [WS-AOC-13-SO-20-2]	B183218	08/03/17
17G1252-17 [WS-AOC-13-SO-20-3]	B183218	08/03/17
17G1252-18 [WS-AOC-13-SO-20-4A]	B183218	08/03/17
17G1252-19 [WS-AOC-13-SO-20-4B]	B183218	08/03/17
17G1252-20 [WS-AOC-13-SO-19-1]	B183218	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02 [WS-AOC-13-SO-16-2]	B183203	0.994	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-02 [WS-AOC-13-SO-16-2]	B183214	0.591	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-01 [WS-AOC-13-SO-16-1]	B183279	10.4	10.0	08/03/17
17G1252-02 [WS-AOC-13-SO-16-2]	B183279	10.2	10.0	08/03/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1252-03 [WS-AOC-13-SO-16-3]	B183279	10.1	10.0	08/03/17
17G1252-04 [WS-AOC-13-SO-14-1]	B183279	10.0	10.0	08/03/17
17G1252-05 [WS-AOC-13-SO-14-2]	B183279	10.1	10.0	08/03/17
17G1252-06 [WS-AOC-13-SO-14-3A]	B183279	10.4	10.0	08/03/17
17G1252-08 [WS-AOC-13-SO-15-1]	B183279	10.0	10.0	08/03/17
17G1252-09 [WS-AOC-13-SO-15-2]	B183279	10.2	10.0	08/03/17
17G1252-10 [WS-AOC-13-SO-15-3]	B183279	10.0	10.0	08/03/17
17G1252-11 [WS-AOC-13-SO-12-1]	B183279	10.0	10.0	08/03/17
17G1252-12 [WS-AOC-13-SO-12-2]	B183279	10.0	10.0	08/03/17
17G1252-13 [WS-AOC-13-SO-12-3A]	B183279	10.3	10.0	08/03/17
17G1252-15 [WS-AOC-13-SO-20-1]	B183279	10.1	10.0	08/03/17
17G1252-16 [WS-AOC-13-SO-20-2]	B183279	10.1	10.0	08/03/17
17G1252-17 [WS-AOC-13-SO-20-3]	B183279	10.0	10.0	08/03/17
17G1252-18 [WS-AOC-13-SO-20-4A]	B183279	10.1	10.0	08/03/17
17G1252-20 [WS-AOC-13-SO-19-1]	B183279	10.1	10.0	08/03/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183279 - SW-846 3540C										
Blank (B183279-BLK1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
LCS (B183279-BS1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.23	0.020	mg/Kg wet	0.200		113	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.8	40-140			
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg wet	0.200		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		91.9	30-150			
LCS Dup (B183279-BSD1)				Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.7	40-140	16.5	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.3	40-140	1.26	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.0	40-140	3.98	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.5	40-140	3.03	30	
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg wet	0.200		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183279 - SW-846 3540C										
Matrix Spike (B183279-MS1)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.38	0.18	mg/Kg dry	0.359	ND	107	40-140			
Aroclor-1016 [2C]	0.36	0.18	mg/Kg dry	0.359	ND	101	40-140			
Aroclor-1260	0.31	0.18	mg/Kg dry	0.359	ND	85.8	40-140			
Aroclor-1260 [2C]	0.30	0.18	mg/Kg dry	0.359	ND	83.4	40-140			
Surrogate: Decachlorobiphenyl	*0.265*		mg/Kg dry	0.359		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.272*		mg/Kg dry	0.359		75.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.293*		mg/Kg dry	0.359		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.302*		mg/Kg dry	0.359		84.3	30-150			
Matrix Spike Dup (B183279-MSD1)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/10/17						
Aroclor-1016	0.39	0.18	mg/Kg dry	0.359	ND	109	40-140	1.97	50	
Aroclor-1016 [2C]	0.37	0.18	mg/Kg dry	0.359	ND	103	40-140	2.11	50	
Aroclor-1260	0.35	0.18	mg/Kg dry	0.359	ND	96.9	40-140	12.1	50	
Aroclor-1260 [2C]	0.32	0.18	mg/Kg dry	0.359	ND	90.1	40-140	7.75	50	
Surrogate: Decachlorobiphenyl	*0.273*		mg/Kg dry	0.359		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.301*		mg/Kg dry	0.359		84.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.281*		mg/Kg dry	0.359		78.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.285*		mg/Kg dry	0.359		79.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183288 - SW-846 3546										
Blank (B183288-BLK1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.20*		mg/Kg wet	3.33		66.1	50-150			
LCS (B183288-BS1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	20.8	10	mg/Kg wet	33.3		62.5	60-120			
Surrogate: o-Terphenyl	*2.15*		mg/Kg wet	3.33		64.6	50-150			
LCS Dup (B183288-BSD1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1	60-120	8.57	30	
Surrogate: o-Terphenyl	*2.38*		mg/Kg wet	3.33		71.3	50-150			
Batch B183484 - SW-846 3546										
Blank (B183484-BLK1)				Prepared & Analyzed: 08/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.57*		mg/Kg wet	3.33		77.0	50-150			
LCS (B183484-BS1)				Prepared & Analyzed: 08/07/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.7	60-120			
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.5	50-150			
LCS Dup (B183484-BSD1)				Prepared & Analyzed: 08/07/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.6	60-120	1.43	30	
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.3	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183218 - % Solids										
Duplicate (B183218-DUP1)		**Source: 17G1252-08**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	34.2		% Wt		34.3			0.292	20	
Duplicate (B183218-DUP2)		**Source: 17G1252-09**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	67.2		% Wt		59.2			12.7	20	
Duplicate (B183218-DUP3)		**Source: 17G1252-10**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	54.4		% Wt		55.2			1.46	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-15-1

Lab Sample ID: 17G1252-08

Date(s) Analyzed: 08/10/2017 08/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.74	29.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-19-1

Lab Sample ID: 17G1252-20

Date(s) Analyzed: 08/10/2017 08/10/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SO-16-1	7/24/17	15:00		X	S	U	X				X				
2	WS-AOC13-SO-16-2		15:02					X				X				
3	WS-AOC13-SO-16-3		15:04					X								
4	WS-AOC13-SO-14-1		15:07					X								
5	WS-AOC13-SO-14-2		15:08					X								
6	WS-AOC13-SO-14-3A		15:09					X								
7	WS-AOC13-SO-14-3B		15:10							X						
8	WS-AOC13-SO-15-1		15:20					X								
9	WS-AOC13-SO-15-2		15:22					X								
10	WS-AOC13-SO-15-3		15:24					X								

WS-AOC-13-SO-16-2 ETPH per client request KS 7/31

WS-AOC-13-SO-15-2 ETPH per client request KS 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-15-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1505
Received by: (signature) [signature]	Date/Time: 7/27/17 1505
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17G1252

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-12-1	7/26/17	15:34		X	S	U	X								
12	WS-AOC13-SO-12-2	↓	15:35		↓	↓	↓	X								
13	WS-AOC13-SO-12-3A	↓	15:36		↓	↓	↓	X								
14	WS-AOC13-SO-12-3B	↓	15:37		↓	↓	↓			X						
15	WS-AOC13-SO-20-1	7/27/17	09:12		↓	↓	↓	X								
16	WS-AOC13-SO-20-2	↓	09:13		↓	↓	↓	X								
17	WS-AOC13-SO-20-3	↓	09:14		↓	↓	↓	X								
18	WS-AOC13-SO-20-4A	↓	09:15		↓	↓	↓	X								
19	WS-AOC13-SO-20-4B	↓	09:16		↓	↓	↓			X						
20	WS-AOC13-SO-19-1	↓	9:04		↓	↓	↓	X								

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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WW = Waste Water
DW = Drinking Water
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ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7-27-17 7:45
Received by: (signature) [signature]	Date/Time: 7/27/17 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2 3
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080617\A0806006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	396420	435896	-9
c - 10	1.64	401324	435896	-8
c - 12	2.37	415700	435896	-5
c - 14	3.04	427710	435896	-2
c - 16	3.65	441238	435896	1
c - 18	4.29	439544	435896	1
o-Terphenyl	4.57	487396	435896	
c - 20	4.89	449397	435896	3
c - 22	5.40	460053	435896	6
c - 24	5.84	432109	435896	-1
c - 26	6.23	457570	435896	5
c - 28	6.59	452358	435896	4
c - 30	6.93	450754	435896	3
c - 32	7.24	439754	435896	1
c - 34	7.54	441393	435896	1
c - 36	7.89	433119	435896	-1

* One compound allowed %D <= 50%

Samples

17G1252-02
17G1073-16@5X
17G1171-20@50X

D:\HPCHEM\1\DATA\A080617\A0806060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	395677	432339	-8
c - 10	1.64	400720	432339	-7
c - 12	2.37	413483	432339	-4
c - 14	3.05	425031	432339	-2
c - 16	3.66	438429	432339	1
c - 18	4.29	436657	432339	1
o-Terphenyl	4.57	485024	432339	
c - 20	4.89	444922	432339	3
c - 22	5.40	454087	432339	5
c - 24	5.84	425652	432339	-2
c - 26	6.24	450486	432339	4
c - 28	6.60	446427	432339	3
c - 30	6.93	446559	432339	3
c - 32	7.24	437863	432339	1
c - 34	7.54	438057	432339	1
c - 36	7.89	431036	432339	0

* One compound allowed %D </= 50%

Samples

17G1252-07@10X
17G1252-19@10X
17G1258-08@100X
17G1252-09
17G1258-04
17G1252-14

D:\HPCHEM\1\DATA\A080717\A0807048.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807048.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	413869	438678	-6
c - 10	1.64	427817	438678	-2
c - 12	2.37	442897	438678	1
c - 14	3.04	450884	438678	3
c - 16	3.65	460485	438678	5
c - 18	4.29	452368	438678	3
o-Terphenyl	4.57	493032	438678	
c - 20	4.89	453071	438678	3
c - 22	5.40	453851	438678	3
c - 24	5.84	418112	438678	-5
c - 26	6.23	437582	438678	0
c - 28	6.60	433678	438678	-1
c - 30	6.93	435063	438678	-1
c - 32	7.25	429774	438678	-2
c - 34	7.54	434901	438678	-1
c - 36	7.90	435822	438678	-1

* One compound allowed %D </= 50%

Samples

17H0210-01
17G1252-19RE1@10X
17G1307-14@5X

D:\HPCHEM\1\DATA\A080717.SEC\A0807049.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807049.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	560741	599900	-7
c - 10	1.63	580393	599900	-3
c - 12	2.34	599002	599900	0
c - 14	3.01	607792	599900	1
c - 16	3.61	620074	599900	3
c - 18	4.23	612161	599900	2
o-Terphenyl	4.51	684844	599900	
c - 20	4.83	621532	599900	4
c - 22	5.34	631356	599900	5
c - 24	5.77	589308	599900	-2
c - 26	6.17	619866	599900	3
c - 28	6.53	608853	599900	1
c - 30	6.86	604230	599900	1
c - 32	7.17	583955	599900	-3
c - 34	7.46	581396	599900	-3
c - 36	7.78	577841	599900	-4

* One compound allowed %D <= 50%

Samples

17G1252-02RE1
17G1252-09RE1
17H0269-01
17G1256-03@50X
17G1256-10@100X
17G1309-03
17G1307-08
17G1252-14RE1

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1252

Laboratory Sample ID(s):

17G1252-01 thru 17G1252-20

Sample Date(s):

07/26/2017,
07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1254

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1254

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-24-4B	17G1254-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-23-1A	17G1254-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-1B	17G1254-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-23-2	17G1254-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-3	17G1254-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-1	17G1254-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2A	17G1254-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2B	17G1254-08	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-1-3	17G1254-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-1	17G1254-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-2	17G1254-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3A	17G1254-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3B	17G1254-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-8-1	17G1254-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-2	17G1254-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-3	17G1254-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4A	17G1254-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4B	17G1254-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-4-1	17G1254-19	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1254-08[WS-AOC7-SO-1-2B]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Decachlorobiphenyl [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	46.0	30-130		8/5/17 15:09
2-Fluorobiphenyl	57.9	30-130		8/5/17 15:09
p-Terphenyl-d14	67.7	30-130		8/5/17 15:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/15/17 7:51
Decachlorobiphenyl [2]	88.7	30-150		8/15/17 7:51
Tetrachloro-m-xylene [1]	85.3	30-150		8/15/17 7:51
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 7:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Chromium	7.5	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Copper	150	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Lead	72	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Mercury	0.081	0.026	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:09	TJK
Nickel	12	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Vanadium	45	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Zinc	81	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1260 [2]	3.6	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/15/17 8:03
Decachlorobiphenyl [2]	84.3	30-150		8/15/17 8:03
Tetrachloro-m-xylene [1]	63.2	30-150		8/15/17 8:03
Tetrachloro-m-xylene [2]	68.3	30-150		8/15/17 8:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1260 [1]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.0	30-150		8/14/17 23:48
Decachlorobiphenyl [2]	101	30-150		8/14/17 23:48
Tetrachloro-m-xylene [1]	82.6	30-150		8/14/17 23:48
Tetrachloro-m-xylene [2]	89.0	30-150		8/14/17 23:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/15/17 0:05
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 0:05
Tetrachloro-m-xylene [1]	74.7	30-150		8/15/17 0:05
Tetrachloro-m-xylene [2]	80.3	30-150		8/15/17 0:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/15/17 0:22
Decachlorobiphenyl [2]	82.4	30-150		8/15/17 0:22
Tetrachloro-m-xylene [1]	77.7	30-150		8/15/17 0:22
Tetrachloro-m-xylene [2]	85.7	30-150		8/15/17 0:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	500	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 21:56

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1254 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1260 [1]	24	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:15
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1260 [1]	12	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1260 [1]	8.2	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:39
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1260 [1]	10	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:51
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.1	50-150		8/4/17 22:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:04

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1260 [1]	44	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:16
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1221 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1232 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1242 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1248 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1254 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1260 [1]	17	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1262 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1268 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:28
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1260 [1]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/15/17 9:40
Decachlorobiphenyl [2]	88.5	30-150		8/15/17 9:40
Tetrachloro-m-xylene [1]	86.6	30-150		8/15/17 9:40
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 9:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	13	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.8	50-150		8/4/17 23:07

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Barium	12	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Chromium	6.7	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Copper	7.5	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Lead	7.5	0.90	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Mercury	ND	0.31	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:11	TJK
Nickel	160	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Vanadium	110	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/15/17 3:44
Decachlorobiphenyl [2]	87.0	30-150		8/15/17 3:44
Tetrachloro-m-xylene [1]	86.8	30-150		8/15/17 3:44
Tetrachloro-m-xylene [2]	94.0	30-150		8/15/17 3:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-08 [WS-AOC7-SO-1-2B]	B183209	30.0	2.00	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183209	30.0	1.00	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183218	08/03/17
17G1254-02 [WS-AOC13-SO-23-1A]	B183218	08/03/17
17G1254-03 [WS-AOC13-SO-23-1B]	B183218	08/03/17
17G1254-04 [WS-AOC13-SO-23-2]	B183218	08/03/17
17G1254-05 [WS-AOC13-SO-23-3]	B183218	08/03/17
17G1254-06 [WS-AOC7-SO-1-1]	B183218	08/03/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183218	08/03/17
17G1254-08 [WS-AOC7-SO-1-2B]	B183218	08/03/17
17G1254-09 [WS-AOC7-SO-1-3]	B183218	08/03/17
17G1254-10 [WS-AOC7-SO-7-1]	B183218	08/03/17
17G1254-11 [WS-AOC7-SO-7-2]	B183218	08/03/17
17G1254-12 [WS-AOC7-SO-7-3A]	B183218	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183218	08/03/17
17G1254-14 [WS-AOC7-SO-8-1]	B183218	08/03/17
17G1254-15 [WS-AOC7-SO-8-2]	B183218	08/03/17
17G1254-16 [WS-AOC7-SO-8-3]	B183218	08/03/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183218	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183218	08/03/17
17G1254-19 [WS-AOC7-SO-4-1]	B183218	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183203	1.03	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183203	1.05	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183214	0.620	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183214	0.0605	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-02 [WS-AOC13-SO-23-1A]	B183351	10.0	10.0	08/04/17
17G1254-04 [WS-AOC13-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1254-05 [WS-AOC13-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1254-06 [WS-AOC7-SO-1-1]	B183351	10.0	10.0	08/04/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183351	10.0	10.0	08/04/17
17G1254-09 [WS-AOC7-SO-1-3]	B183351	10.0	10.0	08/04/17
17G1254-10 [WS-AOC7-SO-7-1]	B183351	10.0	10.0	08/04/17
17G1254-11 [WS-AOC7-SO-7-2]	B183351	10.0	10.0	08/04/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-12 [WS-AOC7-SO-7-3A]	B183351	10.0	10.0	08/04/17
17G1254-14 [WS-AOC7-SO-8-1]	B183351	10.0	10.0	08/04/17
17G1254-15 [WS-AOC7-SO-8-2]	B183351	10.0	10.0	08/04/17
17G1254-16 [WS-AOC7-SO-8-3]	B183351	10.0	10.0	08/04/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183351	10.0	10.0	08/04/17
17G1254-19 [WS-AOC7-SO-4-1]	B183351	10.0	10.0	08/04/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Matrix Spike (B183351-MS1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.30	0.12	mg/Kg dry	0.244	ND	121	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	129	40-140			
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	46.3	40-140			
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	46.8	40-140			
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.244		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.244		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.244		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.244		97.7	30-150			
Matrix Spike Dup (B183351-MSD1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.244	ND	132	40-140	8.34	50	
Aroclor-1016 [2C]	0.31	0.12	mg/Kg dry	0.244	ND	126	40-140	2.73	50	
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	53.6	40-140	1.52	50	
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	58.6	40-140	2.45	50	
Surrogate: Decachlorobiphenyl	*0.236*		mg/Kg dry	0.244		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.244		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.244		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.236*		mg/Kg dry	0.244		96.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183218 - % Solids										
Duplicate (B183218-DUP4)		**Source: 17G1254-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	85.8		% Wt		84.5			1.53	20	
Duplicate (B183218-DUP5)		**Source: 17G1254-05**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	81.1		% Wt		82.0			1.10	20	
Duplicate (B183218-DUP6)		**Source: 17G1254-06**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	94.6		% Wt		94.0			0.636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-1A

Lab Sample ID: 17G1254-02

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-2

Lab Sample ID: 17G1254-04

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	3.6	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-3

Lab Sample ID: 17G1254-05

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.0	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-1

Lab Sample ID: 17G1254-06

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-3

Lab Sample ID: 17G1254-09

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	24	
	2	0.000	-0.030	0.030	24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-1

Lab Sample ID: 17G1254-10

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	12	
	2	0.000	-0.030	0.030	12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-2

Lab Sample ID: 17G1254-11

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	7.7	6.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-3A

Lab Sample ID: 17G1254-12

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	10	
	2	0.000	-0.030	0.030	9.7	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-1

Lab Sample ID: 17G1254-14

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	5.3	3.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-2

Lab Sample ID: 17G1254-15

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	44	
	2	0.000	-0.030	0.030	43	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-3

Lab Sample ID: 17G1254-16

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-4A

Lab Sample ID: 17G1254-17

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183351-MS1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.32	6.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183351-MSD1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1254

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Doc # 381 Rev 0 5 8 2015

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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
	~~WS-AOC13-SO-23-1A~~															
1	WS-AOC13-SO-24-4B	7/27/17	9:52		X	S	U		X							
2	WS-AOC13-SO-23-1A		10:00					X	~~X~~							
3	WS-AOC13-SO-23-1B		10:02					~~X~~				X				
4	WS-AOC13-SO-23-2		10:04					X	~~X~~							
5	WS-AOC13-SO-23-3		10:05					X	~~X~~							
6	WS-AOC7-SO-1-1		10:30					X								
7	WS-AOC7-SO-1-2A		10:32					X								
8	WS-AOC7-SO-1-2B		10:34							X						
9	WS-AOC7-SO-1-3		10:36					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-23-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1985
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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Doc # 381 Rev 0 5 8 2015

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Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Coplanar PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-7-1	7/27/17	10:37		X	S	U	X													
11	WS-AOC7-SO-7-2		10:38					X													
12	WS-AOC7-SO-7-3A		10:39					X													
13	WS-AOC7-SO-7-3B		10:40							X											
14	WS-AOC7-SO-8-1		10:53					X													
15	WS-AOC7-SO-8-2		10:54					X													
16	WS-AOC7-SO-8-3		10:55					X													
17	WS-AOC7-SO-8-4A		10:56					X													
18	WS-AOC7-SO-8-4B		10:57							X		X									
19	WS-AOC7-SO-4-1		11:06					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T (JM)
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1254

Laboratory Sample ID(s):

17G1254-01 thru 17G1254-19

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/16/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1253

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1253

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-19-2	17G1253-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-3	17G1253-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-4A	17G1253-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-19-4B	17G1253-04	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-25-1	17G1253-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-2	17G1253-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-3	17G1253-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-4A	17G1253-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-25-4B	17G1253-09	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC13-SO-22-1	17G1253-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-22-2	17G1253-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-22-3	17G1253-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-1A	17G1253-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-1B	17G1253-14	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-21-2	17G1253-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-21-3	17G1253-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-1	17G1253-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-2	17G1253-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-3	17G1253-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-24-4A	17G1253-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1253-09[WS-AOC13-SO-25-4B]

SW-846 8082A

Qualifications:

MS-19

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183336-MS1

MS-24

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:

Aroclor-1016
B183336-MSD1

Aroclor-1016 [2C]
B183336-MSD1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Decachlorobiphenyl [2C]
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Tetrachloro-m-xylene
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

Tetrachloro-m-xylene [2C]
17G1253-05[WS-AOC13-SO-25-1], 17G1253-06[WS-AOC13-SO-25-2], 17G1253-07[WS-AOC13-SO-25-3], 17G1253-10[WS-AOC13-SO-22-1], 17G1253-11[WS-AOC13-SO-22-2], 17G1253-12[WS-AOC13-SO-22-3], 17G1253-17[WS-AOC13-SO-24-1], 17G1253-18[WS-AOC13-SO-24-2], 17G1253-19[WS-AOC13-SO-24-3], 17G1253-20[WS-AOC13-SO-24-4A]

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SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-2 Sampled: 7/27/2017 09:06

Sample ID: 17G1253-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1260 [1]	1.1	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:15	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.8	30-150		8/7/17 12:15
Decachlorobiphenyl [2]	94.8	30-150		8/7/17 12:15
Tetrachloro-m-xylene [1]	97.8	30-150		8/7/17 12:15
Tetrachloro-m-xylene [2]	97.7	30-150		8/7/17 12:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-2 Sampled: 7/27/2017 09:06

Sample ID: 17G1253-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-3 Sampled: 7/27/2017 09:08

Sample ID: 17G1253-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1260 [1]	0.63	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:28	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.8	30-150		8/7/17 12:28
Decachlorobiphenyl [2]	87.4	30-150		8/7/17 12:28
Tetrachloro-m-xylene [1]	91.3	30-150		8/7/17 12:28
Tetrachloro-m-xylene [2]	91.9	30-150		8/7/17 12:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-3 Sampled: 7/27/2017 09:08

Sample ID: 17G1253-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4A Sampled: 7/27/2017 09:10

Sample ID: 17G1253-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 12:41	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		8/7/17 12:41
Decachlorobiphenyl [2]	92.3	30-150		8/7/17 12:41
Tetrachloro-m-xylene [1]	88.5	30-150		8/7/17 12:41
Tetrachloro-m-xylene [2]	86.6	30-150		8/7/17 12:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4A Sampled: 7/27/2017 09:10

Sample ID: 17G1253-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.6		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4B Sampled: 7/27/2017 09:12

Sample ID: 17G1253-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Arsenic	37	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Barium	36	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Beryllium	ND	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Cadmium	0.63	0.28	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Chromium	22	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Copper	200	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Lead	280	0.85	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Mercury	0.26	0.031	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:07	TJK
Nickel	25	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Selenium	ND	5.7	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Silver	ND	0.57	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Thallium	ND	2.8	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Vanadium	110	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW
Zinc	160	1.1	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 12:32	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-19-4B Sampled: 7/27/2017 09:12

Sample ID: 17G1253-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-1 Sampled: 7/27/2017 09:25

Sample ID: 17G1253-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1221 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1232 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1242 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1248 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1254 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1260 [1]	38	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1262 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG
Aroclor-1268 [1]	ND	5.6	mg/Kg dry	250		SW-846 8082A	8/4/17	8/8/17 8:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 8:55
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 8:55
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 8:55
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 8:55

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-1 Sampled: 7/27/2017 09:25

Sample ID: 17G1253-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-2 Sampled: 7/27/2017 09:26

Sample ID: 17G1253-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1260 [1]	120	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 9:08	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 9:08
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 9:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 9:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 9:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-2 Sampled: 7/27/2017 09:26

Sample ID: 17G1253-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-3 Sampled: 7/27/2017 09:27

Sample ID: 17G1253-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1221 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1232 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1242 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1248 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1254 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1260 [1]	220	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1262 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG
Aroclor-1268 [1]	ND	21	mg/Kg dry	1000		SW-846 8082A	8/4/17	8/8/17 9:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 9:22
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 9:22
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 9:22
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 9:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-3 Sampled: 7/27/2017 09:27

Sample ID: 17G1253-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4A Sampled: 7/27/2017 09:28

Sample ID: 17G1253-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1221 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1232 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1242 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1248 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1254 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1260 [1]	5.2	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1262 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL
Aroclor-1268 [1]	ND	0.57	mg/Kg dry	25		SW-846 8082A	8/9/17	8/11/17 9:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/11/17 9:13
Decachlorobiphenyl [2]	86.5	30-150		8/11/17 9:13
Tetrachloro-m-xylene [1]	76.9	30-150		8/11/17 9:13
Tetrachloro-m-xylene [2]	81.2	30-150		8/11/17 9:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4A Sampled: 7/27/2017 09:28

Sample ID: 17G1253-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4B Sampled: 7/27/2017 09:29

Sample ID: 17G1253-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1200	230	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/7/17 13:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/7/17 13:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-25-4B Sampled: 7/27/2017 09:29

Sample ID: 17G1253-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-1 Sampled: 7/27/2017 09:40

Sample ID: 17G1253-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1221 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1232 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1242 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1248 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1254 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1260 [1]	18	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1262 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG
Aroclor-1268 [1]	ND	2.1	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 9:48	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 9:48
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 9:48
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 9:48
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 9:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-1 Sampled: 7/27/2017 09:40

Sample ID: 17G1253-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-2 Sampled: 7/27/2017 09:42

Sample ID: 17G1253-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1260 [1]	9.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 10:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:01
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:01
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:01
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-2 Sampled: 7/27/2017 09:42

Sample ID: 17G1253-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-3 Sampled: 7/27/2017 09:44

Sample ID: 17G1253-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1260 [1]	17	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:14
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:14
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:14
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-22-3 Sampled: 7/27/2017 09:44

Sample ID: 17G1253-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1A Sampled: 7/27/2017 09:30

Sample ID: 17G1253-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:35	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		8/7/17 15:35
Decachlorobiphenyl [2]	94.7	30-150		8/7/17 15:35
Tetrachloro-m-xylene [1]	97.6	30-150		8/7/17 15:35
Tetrachloro-m-xylene [2]	99.2	30-150		8/7/17 15:35

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1A Sampled: 7/27/2017 09:30

Sample ID: 17G1253-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1B Sampled: 7/27/2017 09:32

Sample ID: 17G1253-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Acenaphthylene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Anthracene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(a)anthracene	1.7	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(a)pyrene	1.9	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(b)fluoranthene	2.4	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(g,h,i)perylene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Benzo(k)fluoranthene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Chrysene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Dibenz(a,h)anthracene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Fluoranthene	3.6	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Naphthalene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Phenanthrene	1.4	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL
Pyrene	3.5	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 20:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.6	30-130		8/5/17 20:44
2-Fluorobiphenyl	61.6	30-130		8/5/17 20:44
p-Terphenyl-d14	69.8	30-130		8/5/17 20:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-1B Sampled: 7/27/2017 09:32

Sample ID: 17G1253-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-2 Sampled: 7/27/2017 09:34

Sample ID: 17G1253-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1260 [1]	0.46	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 15:53	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/7/17 15:53
Decachlorobiphenyl [2]	96.3	30-150		8/7/17 15:53
Tetrachloro-m-xylene [1]	97.0	30-150		8/7/17 15:53
Tetrachloro-m-xylene [2]	97.7	30-150		8/7/17 15:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-2 Sampled: 7/27/2017 09:34

Sample ID: 17G1253-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.2		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-3 Sampled: 7/27/2017 09:36

Sample ID: 17G1253-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 16:11	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		8/7/17 16:11
Decachlorobiphenyl [2]	103	30-150		8/7/17 16:11
Tetrachloro-m-xylene [1]	91.1	30-150		8/7/17 16:11
Tetrachloro-m-xylene [2]	93.3	30-150		8/7/17 16:11

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-21-3 Sampled: 7/27/2017 09:36

Sample ID: 17G1253-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-1 Sampled: 7/27/2017 09:48

Sample ID: 17G1253-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1221 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1232 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1242 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1248 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1254 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1260 [1]	72	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1262 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG
Aroclor-1268 [1]	ND	13	mg/Kg dry	500		SW-846 8082A	8/4/17	8/8/17 10:27	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-1 Sampled: 7/27/2017 09:48

Sample ID: 17G1253-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-2 Sampled: 7/27/2017 09:49

Sample ID: 17G1253-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1221 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1232 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1242 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1248 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1254 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1260 [1]	17	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1262 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG
Aroclor-1268 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:40
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:40
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:40
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-2 Sampled: 7/27/2017 09:49

Sample ID: 17G1253-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-3 Sampled: 7/27/2017 09:50

Sample ID: 17G1253-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1221 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1232 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1242 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1248 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1254 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1260 [1]	13	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1262 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG
Aroclor-1268 [1]	ND	2.2	mg/Kg dry	100		SW-846 8082A	8/4/17	8/8/17 10:54	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 10:54
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 10:54
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 10:54
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 10:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-3 Sampled: 7/27/2017 09:50

Sample ID: 17G1253-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4A Sampled: 7/27/2017 09:51

Sample ID: 17G1253-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1260 [2]	4.8	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/8/17 11:06	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/8/17 11:06
Decachlorobiphenyl [2]	*	30-150	S-01	8/8/17 11:06
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/8/17 11:06
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/8/17 11:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1253

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4A Sampled: 7/27/2017 09:51

Sample ID: 17G1253-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	8/3/17	8/4/17 8:07	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-09 [WS-AOC13-SO-25-4B]	B183288	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1253-01 [WS-AOC13-SO-19-2]	B183217	08/03/17
17G1253-02 [WS-AOC13-SO-19-3]	B183217	08/03/17
17G1253-03 [WS-AOC13-SO-19-4A]	B183217	08/03/17
17G1253-04 [WS-AOC13-SO-19-4B]	B183217	08/03/17
17G1253-05 [WS-AOC13-SO-25-1]	B183217	08/03/17
17G1253-06 [WS-AOC13-SO-25-2]	B183217	08/03/17
17G1253-07 [WS-AOC13-SO-25-3]	B183217	08/03/17
17G1253-08 [WS-AOC13-SO-25-4A]	B183217	08/03/17
17G1253-09 [WS-AOC13-SO-25-4B]	B183217	08/03/17
17G1253-10 [WS-AOC13-SO-22-1]	B183217	08/03/17
17G1253-11 [WS-AOC13-SO-22-2]	B183217	08/03/17
17G1253-12 [WS-AOC13-SO-22-3]	B183217	08/03/17
17G1253-13 [WS-AOC13-SO-21-1A]	B183217	08/03/17
17G1253-14 [WS-AOC13-SO-21-1B]	B183217	08/03/17
17G1253-15 [WS-AOC13-SO-21-2]	B183217	08/03/17
17G1253-16 [WS-AOC13-SO-21-3]	B183217	08/03/17
17G1253-17 [WS-AOC13-SO-24-1]	B183217	08/03/17
17G1253-18 [WS-AOC13-SO-24-2]	B183217	08/03/17
17G1253-19 [WS-AOC13-SO-24-3]	B183217	08/03/17
17G1253-20 [WS-AOC13-SO-24-4A]	B183217	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-04 [WS-AOC13-SO-19-4B]	B183203	1.08	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-04 [WS-AOC13-SO-19-4B]	B183214	0.594	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-01 [WS-AOC13-SO-19-2]	B183336	10.0	10.0	08/04/17
17G1253-02 [WS-AOC13-SO-19-3]	B183336	10.0	10.0	08/04/17
17G1253-03 [WS-AOC13-SO-19-4A]	B183336	10.0	10.0	08/04/17
17G1253-05 [WS-AOC13-SO-25-1]	B183336	10.0	10.0	08/04/17
17G1253-06 [WS-AOC13-SO-25-2]	B183336	10.0	10.0	08/04/17
17G1253-07 [WS-AOC13-SO-25-3]	B183336	10.0	10.0	08/04/17
17G1253-10 [WS-AOC13-SO-22-1]	B183336	10.0	10.0	08/04/17
17G1253-11 [WS-AOC13-SO-22-2]	B183336	10.0	10.0	08/04/17
17G1253-12 [WS-AOC13-SO-22-3]	B183336	10.0	10.0	08/04/17
17G1253-13 [WS-AOC13-SO-21-1A]	B183336	10.0	10.0	08/04/17
17G1253-15 [WS-AOC13-SO-21-2]	B183336	10.0	10.0	08/04/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-16 [WS-AOC13-SO-21-3]	B183336	10.0	10.0	08/04/17
17G1253-17 [WS-AOC13-SO-24-1]	B183336	10.0	10.0	08/04/17
17G1253-18 [WS-AOC13-SO-24-2]	B183336	10.0	10.0	08/04/17
17G1253-19 [WS-AOC13-SO-24-3]	B183336	10.0	10.0	08/04/17
17G1253-20 [WS-AOC13-SO-24-4A]	B183336	10.0	10.0	08/04/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-08RE1 [WS-AOC13-SO-25-4A]	B183697	10.0	10.0	08/09/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1253-14 [WS-AOC13-SO-21-1B]	B183212	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183212 - SW-846 3546										
Blank (B183212-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.12*		mg/Kg wet	3.33		63.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.00*		mg/Kg wet	3.33		59.9	30-130			
Surrogate: p-Terphenyl-d14	*2.26*		mg/Kg wet	3.33		67.7	30-130			
LCS (B183212-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
Acenaphthylene	0.985	0.17	mg/Kg wet	1.67		59.1	40-140			
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140			
Benzo(a)anthracene	0.975	0.17	mg/Kg wet	1.67		58.5	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Benzo(g,h,i)perylene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Chrysene	0.924	0.17	mg/Kg wet	1.67		55.5	40-140			
Dibenz(a,h)anthracene	1.00	0.17	mg/Kg wet	1.67		60.0	40-140			
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Naphthalene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Pyrene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Surrogate: Nitrobenzene-d5	*2.52*		mg/Kg wet	3.33		75.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.32*		mg/Kg wet	3.33		69.5	30-130			
Surrogate: p-Terphenyl-d14	*2.35*		mg/Kg wet	3.33		70.4	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183212 - SW-846 3546										
LCS Dup (B183212-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	0.996	0.17	mg/Kg wet	1.67		59.8	40-140	1.92	30	
Acenaphthylene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	3.23	30	
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	1.21	30	
Benzo(a)anthracene	0.954	0.17	mg/Kg wet	1.67		57.2	40-140	2.21	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140	0.960	30	
Benzo(b)fluoranthene	0.956	0.17	mg/Kg wet	1.67		57.3	40-140	2.48	30	
Benzo(g,h,i)perylene	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	1.13	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140	3.80	30	
Chrysene	0.897	0.17	mg/Kg wet	1.67		53.8	40-140	2.96	30	
Dibenz(a,h)anthracene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140	2.02	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140	2.18	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	1.81	30	
Indeno(1,2,3-cd)pyrene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	0.798	30	
2-Methylnaphthalene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	1.72	30	
Naphthalene	0.977	0.17	mg/Kg wet	1.67		58.6	40-140	0.205	30	
Phenanthrene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	1.61	30	
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	3.85	30	
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.29*		mg/Kg wet	3.33		68.6	30-130			
Surrogate: p-Terphenyl-d14	*2.23*		mg/Kg wet	3.33		67.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183336 - SW-846 3540C										
Blank (B183336-BLK1)				Prepared: 08/04/17 Analyzed: 08/07/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg wet	0.200		95.5	30-150			
LCS (B183336-BS1)				Prepared: 08/04/17 Analyzed: 08/07/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.2	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.9	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.3	40-140			
Surrogate: Decachlorobiphenyl	*0.187*		mg/Kg wet	0.200		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.200		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		81.0	30-150			
LCS Dup (B183336-BSD1)				Prepared: 08/04/17 Analyzed: 08/07/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	1.44	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.7	40-140	0.632	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140	2.14	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	1.57	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B183336 - SW-846 3540C											
Matrix Spike (B183336-MS1)		**Source: 17G1253-01**		Prepared: 08/04/17 Analyzed: 08/07/17							
Aroclor-1016	0.24	0.11	mg/Kg dry	0.215	ND	113		40-140			
Aroclor-1016 [2C]	0.26	0.11	mg/Kg dry	0.215	ND	121		40-140			
Aroclor-1260	1.2	0.11	mg/Kg dry	0.215	1.1	**35.8**	*	40-140			MS-19
Aroclor-1260 [2C]	1.1	0.11	mg/Kg dry	0.215	0.99	42.6		40-140			
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg dry	0.215		96.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg dry	0.215		94.2		30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.215		94.8		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.215		96.6		30-150			
Matrix Spike Dup (B183336-MSD1)		**Source: 17G1253-01**		Prepared: 08/04/17 Analyzed: 08/07/17							
Aroclor-1016	0.34	0.11	mg/Kg dry	0.215	ND	**159**	*	40-140	33.3	50	MS-24
Aroclor-1016 [2C]	0.37	0.11	mg/Kg dry	0.215	ND	**172**	*	40-140	35.1	50	MS-24
Aroclor-1260	1.2	0.11	mg/Kg dry	0.215	1.1	52.9		40-140	3.09	50	
Aroclor-1260 [2C]	1.1	0.11	mg/Kg dry	0.215	0.99	71.0		40-140	5.50	50	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg dry	0.215		92.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg dry	0.215		89.9		30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg dry	0.215		89.7		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.198*		mg/Kg dry	0.215		91.9		30-150			
Batch B183697 - SW-846 3540C											
Blank (B183697-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Aroclor-1016	ND	0.020	mg/Kg wet								
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1221	ND	0.020	mg/Kg wet								
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1232	ND	0.020	mg/Kg wet								
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1242	ND	0.020	mg/Kg wet								
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1248	ND	0.020	mg/Kg wet								
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1254	ND	0.020	mg/Kg wet								
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1260	ND	0.020	mg/Kg wet								
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1262	ND	0.020	mg/Kg wet								
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet								
Aroclor-1268	ND	0.020	mg/Kg wet								
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet								
Surrogate: Decachlorobiphenyl	*0.219*		mg/Kg wet	0.200		110		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.5		30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183697 - SW-846 3540C										
LCS (B183697-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.5	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		69.5	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.7	30-150			
LCS Dup (B183697-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	4.49	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.0	40-140	0.594	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140	2.25	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		68.3	40-140	1.67	30	
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.158*		mg/Kg wet	0.200		79.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183288 - SW-846 3546										
Blank (B183288-BLK1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.20*		mg/Kg wet	3.33		66.1	50-150			
LCS (B183288-BS1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	20.8	10	mg/Kg wet	33.3		62.5	60-120			
Surrogate: o-Terphenyl	*2.15*		mg/Kg wet	3.33		64.6	50-150			
LCS Dup (B183288-BSD1)				Prepared: 08/03/17 Analyzed: 08/06/17						
CT ETPH	22.7	10	mg/Kg wet	33.3		68.1	60-120	8.57	30	
Surrogate: o-Terphenyl	*2.38*		mg/Kg wet	3.33		71.3	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183217 - % Solids										
Duplicate (B183217-DUP1)		**Source: 17G1253-01**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	92.0		% Wt		93.0			1.08	20	
Duplicate (B183217-DUP2)		**Source: 17G1253-02**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	91.8		% Wt		92.9			1.19	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-19-2

Lab Sample ID: 17G1253-01

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.99	10.5

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-19-3

Lab Sample ID: 17G1253-02

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.63	
	2	0.000	-0.030	0.030	0.53	17.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-1

Lab Sample ID: 17G1253-05

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	38	
	2	0.000	-0.030	0.030	33	14.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-2

Lab Sample ID: 17G1253-06

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	120	
	2	0.000	-0.030	0.030	100	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-3

Lab Sample ID: 17G1253-07

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	220	
	2	0.000	-0.030	0.030	200	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-25-4A

Lab Sample ID: 17G1253-08RE1

Date(s) Analyzed: 08/11/2017 08/11/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.2	
	2	0.000	-0.030	0.030	5.1	1.9

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-1

Lab Sample ID: 17G1253-10

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	18	
	2	0.000	-0.030	0.030	17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-2

Lab Sample ID: 17G1253-11

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	9.5	
	2	0.000	-0.030	0.030	8.5	12.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-22-3

Lab Sample ID: 17G1253-12

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-21-2

Lab Sample ID: 17G1253-15

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.46	
	2	0.000	-0.030	0.030	0.45	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-1

Lab Sample ID: 17G1253-17

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	72	
	2	0.000	-0.030	0.030	68	7.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-2

Lab Sample ID: 17G1253-18

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-3

Lab Sample ID: 17G1253-19

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	13	
	2	0.000	-0.030	0.030	12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-24-4A

Lab Sample ID: 17G1253-20

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	4.7	
	2	0.000	-0.030	0.030	4.8	2.1

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

con-test ANALYTICAL LABORATORY
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174 1253

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Sonkel PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SO-19-2	7/27/17	9:06		X	S	U	X								
2	WS-AOC13-SO-19-3	↓	9:08		↓	↓	↓	X								
3	WS-AOC13-SO-19-4A		9:10					X								
4	WS-AOC13-SO-19-4B		9:12									X				
5	WS-AOC13-SO-25-1		9:25					X								
6	WS-AOC13-SO-25-2		9:26					X								
7	WS-AOC13-SO-25-3		9:27					X								
8	WS-AOC13-SO-25-4A		9:28					X								
9	WS-AOC13-SO-25-4B		9:29							X						
10	WS-AOC13-SO-22-1	↓	9:40		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1025
Received by: (signature)	Date/Time:
[signature]	7/27/17 1525
Relinquished by: (signature)	Date/Time:
[signature] 7-27-17	7:44
Received by: (signature)	Date/Time:
[signature] 7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17G1253

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	EtPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-22-2	7/27/17	9:42		X	S	U	X								
12	WS-AOC13-SO-22-3	↓	9:44		↓	↓	↓	X								
13	WS-AOC13-SO-21-1A		9:30					X								
14	WS-AOC13-SO-21-1B		9:32						X							
15	WS-AOC13-SO-21-2		9:34					X								
16	WS-AOC13-SO-21-3		9:36					X								
17	WS-AOC13-SO-24-1		9:48					X								
18	WS-AOC13-SO-24-2		9:49					X								
19	WS-AOC13-SO-24-3		9:50					X								
20	WS-AOC13-SO-24-4A		9:51					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7-27-17 7:45
Received by: (signature) [signature]	Date/Time: 7/27/17 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080717.SEC\A0807007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	567269	616507	-8
c - 10	1.63	582026	616507	-6
c - 12	2.35	602280	616507	-2
c - 14	3.01	616087	616507	0
c - 16	3.62	632696	616507	3
c - 18	4.23	627640	616507	2
o-Terphenyl	4.52	702616	616507	
c - 20	4.84	638720	616507	4
c - 22	5.34	651603	616507	6
c - 24	5.78	609664	616507	-1
c - 26	6.17	643711	616507	4
c - 28	6.53	633637	616507	3
c - 30	6.86	630017	616507	2
c - 32	7.17	609518	616507	-1
c - 34	7.46	605031	616507	-2
c - 36	7.78	597714	616507	-3

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1253

Laboratory Sample ID(s):

17G1253-01 thru 17G1253-20

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 16, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1254

Enclosed are results of analyses for samples received by the laboratory on July 27, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/16/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1254

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-24-4B	17G1254-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC13-SO-23-1A	17G1254-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-1B	17G1254-03	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC13-SO-23-2	17G1254-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-23-3	17G1254-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-1	17G1254-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2A	17G1254-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-1-2B	17G1254-08	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-1-3	17G1254-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-1	17G1254-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-2	17G1254-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3A	17G1254-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-7-3B	17G1254-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC7-SO-8-1	17G1254-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-2	17G1254-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-3	17G1254-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4A	17G1254-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-8-4B	17G1254-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
WS-AOC7-SO-4-1	17G1254-19	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
17G1254-08[WS-AOC7-SO-1-2B]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Decachlorobiphenyl [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

Tetrachloro-m-xylene [2C]
17G1254-09[WS-AOC7-SO-1-3], 17G1254-10[WS-AOC7-SO-7-1], 17G1254-11[WS-AOC7-SO-7-2], 17G1254-12[WS-AOC7-SO-7-3A], 17G1254-14[WS-AOC7-SO-8-1], 17G1254-15[WS-AOC7-SO-8-2], 17G1254-16[WS-AOC7-SO-8-3]

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 15:09	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	46.0	30-130		8/5/17 15:09
2-Fluorobiphenyl	57.9	30-130		8/5/17 15:09
p-Terphenyl-d14	67.7	30-130		8/5/17 15:09

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-24-4B Sampled: 7/27/2017 09:52

Sample ID: 17G1254-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1260 [1]	1.5	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	10		SW-846 8082A	8/4/17	8/15/17 7:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		8/15/17 7:51
Decachlorobiphenyl [2]	88.7	30-150		8/15/17 7:51
Tetrachloro-m-xylene [1]	85.3	30-150		8/15/17 7:51
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 7:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1A Sampled: 7/27/2017 10:00

Sample ID: 17G1254-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Barium	34	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Beryllium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Cadmium	ND	0.26	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Chromium	7.5	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Copper	150	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Lead	72	0.78	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Mercury	0.081	0.026	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:09	TJK
Nickel	12	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Selenium	ND	5.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Silver	ND	0.52	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Thallium	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Vanadium	45	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW
Zinc	81	1.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:30	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-1B Sampled: 7/27/2017 10:02

Sample ID: 17G1254-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1221 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1232 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1242 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1248 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1254 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1260 [2]	3.6	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1262 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG
Aroclor-1268 [1]	ND	0.59	mg/Kg dry	25		SW-846 8082A	8/4/17	8/15/17 8:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/15/17 8:03
Decachlorobiphenyl [2]	84.3	30-150		8/15/17 8:03
Tetrachloro-m-xylene [1]	63.2	30-150		8/15/17 8:03
Tetrachloro-m-xylene [2]	68.3	30-150		8/15/17 8:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-2 Sampled: 7/27/2017 10:04

Sample ID: 17G1254-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1260 [1]	1.1	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/14/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.0	30-150		8/14/17 23:48
Decachlorobiphenyl [2]	101	30-150		8/14/17 23:48
Tetrachloro-m-xylene [1]	82.6	30-150		8/14/17 23:48
Tetrachloro-m-xylene [2]	89.0	30-150		8/14/17 23:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC13-SO-23-3 Sampled: 7/27/2017 10:05

Sample ID: 17G1254-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1260 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/15/17 0:05
Decachlorobiphenyl [2]	75.5	30-150		8/15/17 0:05
Tetrachloro-m-xylene [1]	74.7	30-150		8/15/17 0:05
Tetrachloro-m-xylene [2]	80.3	30-150		8/15/17 0:05

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-1 Sampled: 7/27/2017 10:30

Sample ID: 17G1254-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 0:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/15/17 0:22
Decachlorobiphenyl [2]	82.4	30-150		8/15/17 0:22
Tetrachloro-m-xylene [1]	77.7	30-150		8/15/17 0:22
Tetrachloro-m-xylene [2]	85.7	30-150		8/15/17 0:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2A Sampled: 7/27/2017 10:32

Sample ID: 17G1254-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2000	500	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/4/17 21:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/4/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-2B Sampled: 7/27/2017 10:34

Sample ID: 17G1254-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1221 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1232 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1242 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1248 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1254 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1260 [1]	24	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1262 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG
Aroclor-1268 [1]	ND	5.9	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 8:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:15
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:15
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-1-3 Sampled: 7/27/2017 10:36

Sample ID: 17G1254-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1221 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1232 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1242 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1248 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1254 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1260 [1]	12	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1262 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG
Aroclor-1268 [1]	ND	2.3	mg/Kg dry	100		SW-846 8082A	8/4/17	8/15/17 8:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:27
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:27
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-1 Sampled: 7/27/2017 10:37

Sample ID: 17G1254-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1260 [1]	8.2	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:39
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:39
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-2 Sampled: 7/27/2017 10:38

Sample ID: 17G1254-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1260 [1]	10	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 8:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 8:51
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 8:51
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 8:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3A Sampled: 7/27/2017 10:39

Sample ID: 17G1254-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	120	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/4/17 22:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.1	50-150		8/4/17 22:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-7-3B Sampled: 7/27/2017 10:40

Sample ID: 17G1254-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1221 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1232 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1242 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1248 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1254 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1260 [1]	5.5	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1262 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG
Aroclor-1268 [1]	ND	1.1	mg/Kg dry	50		SW-846 8082A	8/4/17	8/15/17 9:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:04
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:04
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-1 Sampled: 7/27/2017 10:53

Sample ID: 17G1254-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1221 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1232 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1242 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1248 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1254 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1260 [1]	44	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1262 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG
Aroclor-1268 [1]	ND	11	mg/Kg dry	500		SW-846 8082A	8/4/17	8/15/17 9:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:16
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:16
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-2 Sampled: 7/27/2017 10:54

Sample ID: 17G1254-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1221 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1232 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1242 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1248 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1254 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1260 [1]	17	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1262 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG
Aroclor-1268 [1]	ND	5.7	mg/Kg dry	250		SW-846 8082A	8/4/17	8/15/17 9:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	8/15/17 9:28
Decachlorobiphenyl [2]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [1]	*	30-150	S-01	8/15/17 9:28
Tetrachloro-m-xylene [2]	*	30-150	S-01	8/15/17 9:28

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-3 Sampled: 7/27/2017 10:55

Sample ID: 17G1254-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1260 [1]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 9:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		8/15/17 9:40
Decachlorobiphenyl [2]	88.5	30-150		8/15/17 9:40
Tetrachloro-m-xylene [1]	86.6	30-150		8/15/17 9:40
Tetrachloro-m-xylene [2]	93.6	30-150		8/15/17 9:40

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4A Sampled: 7/27/2017 10:56

Sample ID: 17G1254-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	16	13	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.8	50-150		8/4/17 23:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Arsenic	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Barium	12	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Beryllium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Cadmium	ND	0.30	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Chromium	6.7	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Copper	7.5	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Lead	7.5	0.90	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Mercury	ND	0.31	mg/Kg dry	1		SW-846 7471B	8/3/17	8/5/17 13:11	TJK
Nickel	160	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Selenium	ND	6.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Silver	ND	0.60	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Thallium	ND	3.0	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Vanadium	110	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW
Zinc	63	1.2	mg/Kg dry	1		SW-846 6010C-D	8/3/17	8/7/17 11:35	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-8-4B Sampled: 7/27/2017 10:57

Sample ID: 17G1254-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.8		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/4/17	8/15/17 3:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/15/17 3:44
Decachlorobiphenyl [2]	87.0	30-150		8/15/17 3:44
Tetrachloro-m-xylene [1]	86.8	30-150		8/15/17 3:44
Tetrachloro-m-xylene [2]	94.0	30-150		8/15/17 3:44

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1254

Date Received: 7/27/2017

Field Sample #: WS-AOC7-SO-4-1 Sampled: 7/27/2017 11:06

Sample ID: 17G1254-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	8/3/17	8/4/17 7:53	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-08 [WS-AOC7-SO-1-2B]	B183209	30.0	2.00	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183209	30.0	1.00	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183218	08/03/17
17G1254-02 [WS-AOC13-SO-23-1A]	B183218	08/03/17
17G1254-03 [WS-AOC13-SO-23-1B]	B183218	08/03/17
17G1254-04 [WS-AOC13-SO-23-2]	B183218	08/03/17
17G1254-05 [WS-AOC13-SO-23-3]	B183218	08/03/17
17G1254-06 [WS-AOC7-SO-1-1]	B183218	08/03/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183218	08/03/17
17G1254-08 [WS-AOC7-SO-1-2B]	B183218	08/03/17
17G1254-09 [WS-AOC7-SO-1-3]	B183218	08/03/17
17G1254-10 [WS-AOC7-SO-7-1]	B183218	08/03/17
17G1254-11 [WS-AOC7-SO-7-2]	B183218	08/03/17
17G1254-12 [WS-AOC7-SO-7-3A]	B183218	08/03/17
17G1254-13 [WS-AOC7-SO-7-3B]	B183218	08/03/17
17G1254-14 [WS-AOC7-SO-8-1]	B183218	08/03/17
17G1254-15 [WS-AOC7-SO-8-2]	B183218	08/03/17
17G1254-16 [WS-AOC7-SO-8-3]	B183218	08/03/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183218	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183218	08/03/17
17G1254-19 [WS-AOC7-SO-4-1]	B183218	08/03/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183203	1.03	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183203	1.05	50.0	08/03/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-03 [WS-AOC13-SO-23-1B]	B183214	0.620	50.0	08/03/17
17G1254-18 [WS-AOC7-SO-8-4B]	B183214	0.0605	50.0	08/03/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-02 [WS-AOC13-SO-23-1A]	B183351	10.0	10.0	08/04/17
17G1254-04 [WS-AOC13-SO-23-2]	B183351	10.0	10.0	08/04/17
17G1254-05 [WS-AOC13-SO-23-3]	B183351	10.0	10.0	08/04/17
17G1254-06 [WS-AOC7-SO-1-1]	B183351	10.0	10.0	08/04/17
17G1254-07 [WS-AOC7-SO-1-2A]	B183351	10.0	10.0	08/04/17
17G1254-09 [WS-AOC7-SO-1-3]	B183351	10.0	10.0	08/04/17
17G1254-10 [WS-AOC7-SO-7-1]	B183351	10.0	10.0	08/04/17
17G1254-11 [WS-AOC7-SO-7-2]	B183351	10.0	10.0	08/04/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-12 [WS-AOC7-SO-7-3A]	B183351	10.0	10.0	08/04/17
17G1254-14 [WS-AOC7-SO-8-1]	B183351	10.0	10.0	08/04/17
17G1254-15 [WS-AOC7-SO-8-2]	B183351	10.0	10.0	08/04/17
17G1254-16 [WS-AOC7-SO-8-3]	B183351	10.0	10.0	08/04/17
17G1254-17 [WS-AOC7-SO-8-4A]	B183351	10.0	10.0	08/04/17
17G1254-19 [WS-AOC7-SO-4-1]	B183351	10.0	10.0	08/04/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1254-01 [WS-AOC13-SO-24-4B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Blank (B183351-BLK1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg wet	0.200		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.6	30-150			
LCS (B183351-BS1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140			
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg wet	0.200		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.197*		mg/Kg wet	0.200		98.4	30-150			
LCS Dup (B183351-BSD1)				Prepared: 08/04/17 Analyzed: 08/14/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.5	40-140	1.61	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.6	40-140	0.260	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.4	40-140	0.315	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		87.9	40-140	0.476	30	
Surrogate: Decachlorobiphenyl	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.9	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183351 - SW-846 3540C										
Matrix Spike (B183351-MS1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.30	0.12	mg/Kg dry	0.244	ND	121	40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.244	ND	129	40-140			
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	46.3	40-140			
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	46.8	40-140			
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.244		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.244		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.244		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.238*		mg/Kg dry	0.244		97.7	30-150			
Matrix Spike Dup (B183351-MSD1)		**Source: 17G1254-05**		Prepared: 08/04/17 Analyzed: 08/15/17						
Aroclor-1016	0.32	0.12	mg/Kg dry	0.244	ND	132	40-140	8.34	50	
Aroclor-1016 [2C]	0.31	0.12	mg/Kg dry	0.244	ND	126	40-140	2.73	50	
Aroclor-1260	1.2	0.12	mg/Kg dry	0.244	1.1	53.6	40-140	1.52	50	
Aroclor-1260 [2C]	1.2	0.12	mg/Kg dry	0.244	1.0	58.6	40-140	2.45	50	
Surrogate: Decachlorobiphenyl	*0.236*		mg/Kg dry	0.244		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.244*		mg/Kg dry	0.244		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.244		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.236*		mg/Kg dry	0.244		96.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
Blank (B183203-BLK1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B183203-BS1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	72.0	5.0	mg/Kg wet	88.2		81.6	0-210.3			
Arsenic	55.2	5.0	mg/Kg wet	57.0		96.8	77.8-122.1			
Barium	108	5.0	mg/Kg wet	110		98.2	82-117.4			
Beryllium	68.1	0.50	mg/Kg wet	67.5		101	82.3-117.7			
Cadmium	77.4	0.50	mg/Kg wet	77.8		99.5	81.9-118.2			
Chromium	63.7	1.0	mg/Kg wet	65.0		97.9	78.7-120.6			
Copper	58.6	1.0	mg/Kg wet	56.4		104	80.4-119.6			
Lead	84.3	1.5	mg/Kg wet	85.6		98.5	82.4-117.8			
Nickel	59.7	1.0	mg/Kg wet	61.3		97.3	82.2-117.8			
Selenium	75.4	10	mg/Kg wet	78.9		95.6	77.1-122.3			
Silver	54.1	1.0	mg/Kg wet	54.2		99.7	74.3-125.4			
Thallium	192	5.0	mg/Kg wet	178		108	78.2-121.6			
Vanadium	54.6	2.0	mg/Kg wet	56.3		96.9	64.8-135.2			
Zinc	191	2.0	mg/Kg wet	198		96.5	79.7-120.8			
LCS Dup (B183203-BSD1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Antimony	69.8	5.1	mg/Kg wet	88.2		79.1	0-210.3	3.12	30	
Arsenic	56.0	5.1	mg/Kg wet	57.0		98.2	77.8-122.1	1.41	30	
Barium	106	5.1	mg/Kg wet	110		96.6	82-117.4	1.62	30	
Beryllium	67.7	0.51	mg/Kg wet	67.5		100	82.3-117.7	0.566	30	
Cadmium	78.4	0.51	mg/Kg wet	77.8		101	81.9-118.2	1.24	30	
Chromium	62.3	1.0	mg/Kg wet	65.0		95.8	78.7-120.6	2.18	30	
Copper	58.8	1.0	mg/Kg wet	56.4		104	80.4-119.6	0.296	30	
Lead	82.9	1.5	mg/Kg wet	85.6		96.9	82.4-117.8	1.69	30	
Nickel	60.9	1.0	mg/Kg wet	61.3		99.3	82.2-117.8	2.05	30	
Selenium	75.6	10	mg/Kg wet	78.9		95.8	77.1-122.3	0.247	30	
Silver	53.7	1.0	mg/Kg wet	54.2		99.1	74.3-125.4	0.626	30	
Thallium	189	5.1	mg/Kg wet	178		106	78.2-121.6	1.54	30	
Vanadium	52.7	2.0	mg/Kg wet	56.3		93.5	64.8-135.2	3.54	30	
Zinc	190	2.0	mg/Kg wet	198		96.1	79.7-120.8	0.393	30	

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183203 - SW-846 3050B										
MRL Check (B183203-MRL1)				Prepared: 08/03/17 Analyzed: 08/07/17						
Lead	0.863	0.72	mg/Kg wet	0.722		120	80-120			
Batch B183214 - SW-846 7471										
Blank (B183214-BLK1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183214-BS1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.76	1.9	mg/Kg wet	9.36		104	73.7-126.3			
LCS Dup (B183214-BSD1)				Prepared: 08/03/17 Analyzed: 08/05/17						
Mercury	9.10	1.9	mg/Kg wet	9.36		97.2	73.7-126.3	7.05	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183218 - % Solids										
Duplicate (B183218-DUP4)		**Source: 17G1254-04**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	85.8		% Wt		84.5			1.53	20	
Duplicate (B183218-DUP5)		**Source: 17G1254-05**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	81.1		% Wt		82.0			1.10	20	
Duplicate (B183218-DUP6)		**Source: 17G1254-06**		Prepared: 08/03/17 Analyzed: 08/04/17						
% Solids	94.6		% Wt		94.0			0.636	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-1A

Lab Sample ID: 17G1254-02

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.5	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-2

Lab Sample ID: 17G1254-04

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	3.4	
	2	0.000	-0.030	0.030	3.6	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-23-3

Lab Sample ID: 17G1254-05

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.0	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-1

Lab Sample ID: 17G1254-06

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.13	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-1-3

Lab Sample ID: 17G1254-09

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	24	
	2	0.000	-0.030	0.030	24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-1

Lab Sample ID: 17G1254-10

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	12	
	2	0.000	-0.030	0.030	12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-2

Lab Sample ID: 17G1254-11

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	8.2	
	2	0.000	-0.030	0.030	7.7	6.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-7-3A

Lab Sample ID: 17G1254-12

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	10	
	2	0.000	-0.030	0.030	9.7	3.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-1

Lab Sample ID: 17G1254-14

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	5.5	
	2	0.000	-0.030	0.030	5.3	3.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-2

Lab Sample ID: 17G1254-15

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	44	
	2	0.000	-0.030	0.030	43	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-3

Lab Sample ID: 17G1254-16

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	17	
	2	0.000	-0.030	0.030	17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-8-4A

Lab Sample ID: 17G1254-17

Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.20	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183351-BS1

Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183351-BSD1 Date(s) Analyzed: 08/14/2017 08/14/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183351-MS1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.32	6.5
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183351-MSD1 Date(s) Analyzed: 08/15/2017 08/15/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2
Aroclor-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.2	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1254

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
	~~WS-AOC13-SO-23-1A~~															
1	WS-AOC13-SO-24-4B	7/27/17	9:52		X	S	U		X							
2	WS-AOC13-SO-23-1A		10:00					X	~~X~~							
3	WS-AOC13-SO-23-1B		10:02					~~X~~				X				
4	WS-AOC13-SO-23-2		10:04					X	~~X~~							
5	WS-AOC13-SO-23-3		10:05					X	~~X~~							
6	WS-AOC7-SO-1-1		10:30					X								
7	WS-AOC7-SO-1-2A		10:32					X								
8	WS-AOC7-SO-1-2B		10:34							X						
9	WS-AOC7-SO-1-3		10:36					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-23-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1985
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Coplanar PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs						# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC7-SO-7-1	7/27/17	10:37		X	S	U	X													
11	WS-AOC7-SO-7-2		10:38					X													
12	WS-AOC7-SO-7-3A		10:39					X													
13	WS-AOC7-SO-7-3B		10:40							X											
14	WS-AOC7-SO-8-1		10:53					X													
15	WS-AOC7-SO-8-2		10:54					X													
16	WS-AOC7-SO-8-3		10:55					X													
17	WS-AOC7-SO-8-4A		10:56					X													
18	WS-AOC7-SO-8-4B		10:57							X		X									
19	WS-AOC7-SO-4-1		11:06					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
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O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
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O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
7/27/17	1525
Received by: (signature)	Date/Time:
	7/27/17 1525
Relinquished by: (signature)	Date/Time:
7-27-17	7:45
Received by: (signature)	Date/Time:
7/27/17	1945
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T (JM)
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

D:\HPCHEM\1\DATA\A080417.SEC\A0804079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	412622	444472	-7
c - 10	1.50	420598	444472	-5
c - 12	2.22	438402	444472	-1
c - 14	2.88	451044	444472	1
c - 16	3.48	459256	444472	3
c - 18	4.05	452050	444472	2
o-Terphenyl	4.35	491812	444472	
c - 20	4.66	458504	444472	3
c - 22	5.17	461579	444472	4
c - 24	5.61	429319	444472	-3
c - 26	6.01	451685	444472	2
c - 28	6.36	450715	444472	1
c - 30	6.70	447938	444472	1
c - 32	7.00	440516	444472	-1
c - 34	7.29	445571	444472	0
c - 36	7.57	447287	444472	1

* One compound allowed %D <= 50%

Samples

17G1254-08@20X
17G1254-13@10X
17G1169-09@5X
17G1172-03@20X
17G1172-07@10X
17G1257-01@5X
17G1257-09@10X
17G1257-11@10X
17G1257-14@5X
17G1257-17@10X
17G1255-03@20X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17G1254

Laboratory Sample ID(s):

17G1254-01 thru 17G1254-19

Sample Date(s):

07/27/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/16/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 17, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0199

Enclosed are results of analyses for samples received by the laboratory on August 3, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0199

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-AS-26	17H0199-01	Product/Solid		SW-846 8082A	
WS-AOC7-AS-1	17H0199-02	Product/Solid		SW-846 8082A	
WS-AOC13-AS-23	17H0199-03	Product/Solid		SW-846 8082A	
WS-AOC13-AS-21	17H0199-04	Product/Solid		SW-846 8082A	
WS-AOC13-AS-17	17H0199-05	Product/Solid		SW-846 8082A	
WS-AOC13-AS-15	17H0199-06	Product/Solid		SW-846 8082A	
WS-AOC13-AS-16	17H0199-07	Product/Solid		SW-846 8082A	
WS-AOC13-AS-22	17H0199-08	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-64	17H0199-09	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-63	17H0199-10	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-62	17H0199-11	Product/Solid		SW-846 8082A	
WS-AOC7-AS-DUP7	17H0199-12	Product/Solid		SW-846 8082A	
WS-AOC13-AS-DUP6	17H0199-13	Product/Solid		SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-26 Sampled: 8/3/2017 10:50

Sample ID: 17H0199-01

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:06
Decachlorobiphenyl [2]	101	30-150		8/15/17 22:06
Tetrachloro-m-xylene [1]	97.1	30-150		8/15/17 22:06
Tetrachloro-m-xylene [2]	103	30-150		8/15/17 22:06

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-1 Sampled: 8/3/2017 11:43

Sample ID: 17H0199-02

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/15/17 22:24
Decachlorobiphenyl [2]	92.6	30-150		8/15/17 22:24
Tetrachloro-m-xylene [1]	91.7	30-150		8/15/17 22:24
Tetrachloro-m-xylene [2]	98.3	30-150		8/15/17 22:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-23 Sampled: 8/3/2017 11:37

Sample ID: 17H0199-03

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 22:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/15/17 22:42
Decachlorobiphenyl [2]	99.4	30-150		8/15/17 22:42
Tetrachloro-m-xylene [1]	101	30-150		8/15/17 22:42
Tetrachloro-m-xylene [2]	106	30-150		8/15/17 22:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-21 Sampled: 8/3/2017 11:25

Sample ID: 17H0199-04

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/15/17 23:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	118	30-150		8/15/17 23:00
Decachlorobiphenyl [2]	106	30-150		8/15/17 23:00
Tetrachloro-m-xylene [1]	110	30-150		8/15/17 23:00
Tetrachloro-m-xylene [2]	115	30-150		8/15/17 23:00

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-17 Sampled: 8/3/2017 10:40

Sample ID: 17H0199-05

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 1:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.8	30-150		8/17/17 1:59
Decachlorobiphenyl [2]	87.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [1]	82.1	30-150		8/17/17 1:59
Tetrachloro-m-xylene [2]	95.7	30-150		8/17/17 1:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-15 Sampled: 8/3/2017 10:30

Sample ID: 17H0199-06

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.2	30-150		8/17/17 2:16
Decachlorobiphenyl [2]	90.9	30-150		8/17/17 2:16
Tetrachloro-m-xylene [1]	90.6	30-150		8/17/17 2:16
Tetrachloro-m-xylene [2]	104	30-150		8/17/17 2:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-16 Sampled: 8/3/2017 10:35

Sample ID: 17H0199-07

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.1	30-150		8/17/17 2:34
Decachlorobiphenyl [2]	92.5	30-150		8/17/17 2:34
Tetrachloro-m-xylene [1]	94.6	30-150		8/17/17 2:34
Tetrachloro-m-xylene [2]	106	30-150		8/17/17 2:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-22 Sampled: 8/3/2017 11:36

Sample ID: 17H0199-08

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 2:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		8/17/17 2:51
Decachlorobiphenyl [2]	90.2	30-150		8/17/17 2:51
Tetrachloro-m-xylene [1]	88.7	30-150		8/17/17 2:51
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 2:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-64 Sampled: 8/3/2017 09:45

Sample ID: 17H0199-09

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		8/17/17 3:08
Decachlorobiphenyl [2]	62.2	30-150		8/17/17 3:08
Tetrachloro-m-xylene [1]	63.7	30-150		8/17/17 3:08
Tetrachloro-m-xylene [2]	71.5	30-150		8/17/17 3:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-63 Sampled: 8/3/2017 09:40

Sample ID: 17H0199-10

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		8/17/17 3:25
Decachlorobiphenyl [2]	84.3	30-150		8/17/17 3:25
Tetrachloro-m-xylene [1]	81.9	30-150		8/17/17 3:25
Tetrachloro-m-xylene [2]	95.0	30-150		8/17/17 3:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC12E-AS-62 Sampled: 8/3/2017 09:35

Sample ID: 17H0199-11

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 3:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		8/17/17 3:42
Decachlorobiphenyl [2]	85.3	30-150		8/17/17 3:42
Tetrachloro-m-xylene [1]	88.1	30-150		8/17/17 3:42
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 3:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-DUP7 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-12

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		8/17/17 4:00
Decachlorobiphenyl [2]	59.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [1]	63.0	30-150		8/17/17 4:00
Tetrachloro-m-xylene [2]	71.0	30-150		8/17/17 4:00

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0199

Date Received: 8/3/2017

Field Sample #: WS-AOC13-AS-DUP6 Sampled: 8/3/2017 00:00

Sample ID: 17H0199-13

Sample Matrix: Product/Solid

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/12/17	8/17/17 4:17	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		8/17/17 4:17
Decachlorobiphenyl [2]	85.2	30-150		8/17/17 4:17
Tetrachloro-m-xylene [1]	86.0	30-150		8/17/17 4:17
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 4:17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0199-01 [WS-AOC13-AS-26]	B183940	2.04	10.0	08/12/17
17H0199-02 [WS-AOC7-AS-1]	B183940	2.02	10.0	08/12/17
17H0199-03 [WS-AOC13-AS-23]	B183940	2.03	10.0	08/12/17
17H0199-04 [WS-AOC13-AS-21]	B183940	2.04	10.0	08/12/17
17H0199-05 [WS-AOC13-AS-17]	B183940	2.03	10.0	08/12/17
17H0199-06 [WS-AOC13-AS-15]	B183940	2.02	10.0	08/12/17
17H0199-07 [WS-AOC13-AS-16]	B183940	2.01	10.0	08/12/17
17H0199-08 [WS-AOC13-AS-22]	B183940	2.03	10.0	08/12/17
17H0199-09 [WS-AOC12E-AS-64]	B183940	2.02	10.0	08/12/17
17H0199-10 [WS-AOC12E-AS-63]	B183940	2.04	10.0	08/12/17
17H0199-11 [WS-AOC12E-AS-62]	B183940	2.03	10.0	08/12/17
17H0199-12 [WS-AOC7-AS-DUP7]	B183940	2.02	10.0	08/12/17
17H0199-13 [WS-AOC13-AS-DUP6]	B183940	2.02	10.0	08/12/17

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183940 - SW-846 3540C										
Blank (B183940-BLK1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	ND	0.10	mg/Kg							
Aroclor-1016 [2C]	ND	0.10	mg/Kg							
Aroclor-1221	ND	0.10	mg/Kg							
Aroclor-1221 [2C]	ND	0.10	mg/Kg							
Aroclor-1232	ND	0.10	mg/Kg							
Aroclor-1232 [2C]	ND	0.10	mg/Kg							
Aroclor-1242	ND	0.10	mg/Kg							
Aroclor-1242 [2C]	ND	0.10	mg/Kg							
Aroclor-1248	ND	0.10	mg/Kg							
Aroclor-1248 [2C]	ND	0.10	mg/Kg							
Aroclor-1254	ND	0.10	mg/Kg							
Aroclor-1254 [2C]	ND	0.10	mg/Kg							
Aroclor-1260	ND	0.10	mg/Kg							
Aroclor-1260 [2C]	ND	0.10	mg/Kg							
Aroclor-1262	ND	0.10	mg/Kg							
Aroclor-1262 [2C]	ND	0.10	mg/Kg							
Aroclor-1268	ND	0.10	mg/Kg							
Aroclor-1268 [2C]	ND	0.10	mg/Kg							
Surrogate: Decachlorobiphenyl	*1.13*		mg/Kg	1.00		113	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.948*		mg/Kg	1.00		94.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.918*		mg/Kg	1.00		91.8	30-150			
LCS (B183940-BS1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.8	40-140			
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		90.3	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.7	40-140			
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140			
Surrogate: Decachlorobiphenyl	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.992*		mg/Kg	1.00		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.930*		mg/Kg	1.00		93.0	30-150			
LCS Dup (B183940-BSD1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		92.2	40-140	1.50	30	
Aroclor-1016 [2C]	0.93	0.10	mg/Kg	1.00		93.1	40-140	2.97	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		89.5	40-140	1.32	30	
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		82.2	40-140	0.0170	30	
Surrogate: Decachlorobiphenyl	*1.16*		mg/Kg	1.00		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.943*		mg/Kg	1.00		94.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183940 - SW-846 3540C										
Matrix Spike (B183940-MS1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.2	0.99	mg/Kg	0.990	ND	125	40-140			
Aroclor-1016 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Aroclor-1260	1.1	0.99	mg/Kg	0.990	ND	113	40-140			
Aroclor-1260 [2C]	1.2	0.99	mg/Kg	0.990	ND	117	40-140			
Surrogate: Decachlorobiphenyl	*0.892*		mg/Kg	0.990		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.879*		mg/Kg	0.990		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.692*		mg/Kg	0.990		69.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.990		103	30-150			
Matrix Spike Dup (B183940-MSD1)		**Source: 17H0199-05**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	1.0	0.98	mg/Kg	0.976	ND	105	40-140	19.0	50	
Aroclor-1016 [2C]	1.1	0.98	mg/Kg	0.976	ND	112	40-140	6.14	50	
Aroclor-1260	1.0	0.98	mg/Kg	0.976	ND	107	40-140	7.16	50	
Aroclor-1260 [2C]	1.1	0.98	mg/Kg	0.976	ND	111	40-140	7.34	50	
Surrogate: Decachlorobiphenyl	*0.822*		mg/Kg	0.976		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.814*		mg/Kg	0.976		83.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.799*		mg/Kg	0.976		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.956*		mg/Kg	0.976		98.0	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Product/Solid	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Email: info@contestlabs.com

17H0199

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

(Soxhlet) PCB

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-AS-26	8/3/17	10:50		X	O	U			
02	WS-AOC7-AS-1		11:43							
03	WS-AOC13-AS-23		11:37							
04	WS-AOC13-AS-21		11:25							
05	WS-AOC13-AS-17		10:40							
06	WS-AOC13-AS-15		10:30							
07	WS-AOC13-AS-16		10:35							
08	WS-AOC13-AS-22		11:36							
09	WS-AOC12E-AS-64		9:45							
10	WS-AOC12E-AS-63		9:40							

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-AS-17 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
Hankesh Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT: RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17H0199

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

(Soxhlet) PCB

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-AS-02	8/3/17	9:35		X	D	U			
12	WS-AOC7-AS-DUP7	↓			↓	↓	↓			
13	WS-AOC13-AS-DUP6	↓			↓	↓	↓			

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
Akanksha Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature)	Date/Time:
[illegible]	8/3/17 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 8/3/17 Time 1645

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 3.1°C, 4.7°C

Were samples within Temperature? 2-6°C T By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	15
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H0199

Laboratory Sample ID(s):

17H0199-01 thru 17H0199-13

Sample Date(s):

08/03/2017

List RCP Methods Used:

SW-846 8082A

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/17/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
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August 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0432

Enclosed are results of analyses for samples received by the laboratory on August 9, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0432

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-17-1	17H0432-01	Soil		SW-846 8270D	
WS-AOC-13-SO-DUP-27	17H0432-02	Soil		SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1016 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17H0432-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	0.56	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Anthracene (SIM)	0.30	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)anthracene (SIM)	0.54	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)pyrene (SIM)	0.47	0.10	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(b)fluoranthene (SIM)	0.70	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(k)fluoranthene (SIM)	0.23	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Chrysene (SIM)	0.66	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluoranthene (SIM)	2.2	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Phenanthrene (SIM)	0.39	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Pyrene (SIM)	3.0	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	72.9	30-130		8/16/17 12:06
2-Fluorobiphenyl	68.2	30-130		8/16/17 12:06
p-Terphenyl-d14	56.3	30-130		8/16/17 12:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17H0432-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		8/17/17 20:30
Decachlorobiphenyl [2]	98.2	30-150		8/17/17 20:30
Tetrachloro-m-xylene [1]	90.4	30-150		8/17/17 20:30
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 20:30

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-02 [WS-AOC-13-SO-DUP-27]	B183949	500	5.00	08/12/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-01 [WS-AOC-13-SO-17-1]	B184190	700	0.700	08/15/17

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
Blank (B184190-BLK1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*77.7*		µg/L	100		77.7	30-130			
Surrogate: 2-Fluorobiphenyl	*73.0*		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14	*65.9*		µg/L	100		65.9	30-130			
LCS (B184190-BS1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	43.6	7.5	µg/L	50.0		87.2	40-140			
Acenaphthylene (SIM)	42.5	7.5	µg/L	50.0		85.0	40-140			
Anthracene (SIM)	46.3	5.0	µg/L	50.0		92.6	40-140			
Benzo(a)anthracene (SIM)	44.6	1.2	µg/L	50.0		89.1	40-140			
Benzo(a)pyrene (SIM)	47.3	2.5	µg/L	50.0		94.6	40-140			
Benzo(b)fluoranthene (SIM)	47.9	1.2	µg/L	50.0		95.8	40-140			
Benzo(g,h,i)perylene (SIM)	44.3	12	µg/L	50.0		88.6	40-140			
Benzo(k)fluoranthene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Chrysene (SIM)	44.4	5.0	µg/L	50.0		88.7	40-140			
Dibenz(a,h)anthracene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.3	40-140			
Fluorene (SIM)	44.1	25	µg/L	50.0		88.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	44.7	5.0	µg/L	50.0		89.4	40-140			
2-Methylnaphthalene (SIM)	42.3	25	µg/L	50.0		84.6	40-140			
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.3	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140			
Surrogate: Nitrobenzene-d5	*89.6*		µg/L	100		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	*99.0*		µg/L	100		99.0	30-130			
Surrogate: p-Terphenyl-d14	*76.5*		µg/L	100		76.5	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
LCS Dup (B184190-BSD1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.6	40-140	11.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	11.8	20	
Anthracene (SIM)	51.6	5.0	µg/L	50.0		103	40-140	10.9	20	
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.6	40-140	11.1	20	
Benzo(a)pyrene (SIM)	53.1	2.5	µg/L	50.0		106	40-140	11.7	20	
Benzo(b)fluoranthene (SIM)	53.4	1.2	µg/L	50.0		107	40-140	10.8	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	11.2	20	
Benzo(k)fluoranthene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.6	20	
Chrysene (SIM)	49.4	5.0	µg/L	50.0		98.8	40-140	10.7	20	
Dibenz(a,h)anthracene (SIM)	50.1	5.0	µg/L	50.0		100	40-140	11.9	20	
Fluoranthene (SIM)	50.7	12	µg/L	50.0		101	40-140	10.4	20	
Fluorene (SIM)	49.3	25	µg/L	50.0		98.6	40-140	11.1	20	
Indeno(1,2,3-cd)pyrene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	48.0	25	µg/L	50.0		96.0	40-140	12.7	20	
Naphthalene (SIM)	48.2	25	µg/L	50.0		96.5	40-140	13.5	20	
Phenanthrene (SIM)	50.3	1.2	µg/L	50.0		101	40-140	10.8	20	
Pyrene (SIM)	50.8	25	µg/L	50.0		102	40-140	10.3	20	
Surrogate: Nitrobenzene-d5	*103*		µg/L	100		103	30-130			
Surrogate: 2-Fluorobiphenyl	*108*		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	*84.2*		µg/L	100		84.2	30-130			
Matrix Spike (B184190-MS1)	**Source: 17H0432-01**			Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	55.1	7.5	µg/L	71.4	0.562	76.4	40-140			
Acenaphthylene (SIM)	53.6	7.5	µg/L	71.4	0.117	74.8	40-140			
Anthracene (SIM)	57.8	5.0	µg/L	71.4	0.296	80.5	40-140			
Benzo(a)anthracene (SIM)	57.4	1.2	µg/L	71.4	0.539	79.5	40-140			
Benzo(a)pyrene (SIM)	60.8	2.5	µg/L	71.4	0.467	84.4	40-140			
Benzo(b)fluoranthene (SIM)	60.4	1.2	µg/L	71.4	0.702	83.6	40-140			
Benzo(g,h,i)perylene (SIM)	57.1	12	µg/L	71.4	0.249	79.6	40-140			
Benzo(k)fluoranthene (SIM)	58.2	5.0	µg/L	71.4	0.232	81.1	40-140			
Chrysene (SIM)	56.9	5.0	µg/L	71.4	0.658	78.7	40-140			
Dibenz(a,h)anthracene (SIM)	57.5	5.0	µg/L	71.4	0.0610	80.4	40-140			
Fluoranthene (SIM)	58.6	12	µg/L	71.4	2.22	79.0	40-140			
Fluorene (SIM)	54.9	25	µg/L	71.4	0.121	76.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	58.0	5.0	µg/L	71.4	0.244	80.9	40-140			
2-Methylnaphthalene (SIM)	53.3	25	µg/L	71.4	0.0960	74.5	40-140			
Naphthalene (SIM)	54.2	25	µg/L	71.4	0.385	75.3	40-140			
Phenanthrene (SIM)	56.2	1.2	µg/L	71.4	0.387	78.2	40-140			
Pyrene (SIM)	61.5	25	µg/L	71.4	2.97	81.9	40-140			
Surrogate: Nitrobenzene-d5	*116*		µg/L	143		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	*119*		µg/L	143		83.3	30-130			
Surrogate: p-Terphenyl-d14	*83.7*		µg/L	143		58.6	30-130			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B183949 - SW-846 3510C											
Blank (B183949-BLK1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	ND	0.20	µg/L								R-05
Aroclor-1016 [2C]	ND	0.20	µg/L								R-05
Aroclor-1221	ND	0.20	µg/L								
Aroclor-1221 [2C]	ND	0.20	µg/L								
Aroclor-1232	ND	0.20	µg/L								
Aroclor-1232 [2C]	ND	0.20	µg/L								
Aroclor-1242	ND	0.20	µg/L								
Aroclor-1242 [2C]	ND	0.20	µg/L								
Aroclor-1248	ND	0.20	µg/L								
Aroclor-1248 [2C]	ND	0.20	µg/L								
Aroclor-1254	ND	0.20	µg/L								
Aroclor-1254 [2C]	ND	0.20	µg/L								
Aroclor-1260	ND	0.20	µg/L								R-05
Aroclor-1260 [2C]	ND	0.20	µg/L								R-05
Aroclor-1262	ND	0.20	µg/L								
Aroclor-1262 [2C]	ND	0.20	µg/L								
Aroclor-1268	ND	0.20	µg/L								
Aroclor-1268 [2C]	ND	0.20	µg/L								
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.96*		µg/L	2.00		98.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.84*		µg/L	2.00		91.8	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/L	2.00		102	30-150				
LCS (B183949-BS1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.41	0.20	µg/L	0.500		82.3	40-140				R-05
Aroclor-1016 [2C]	0.40	0.20	µg/L	0.500		80.8	40-140				R-05
Aroclor-1260	0.31	0.20	µg/L	0.500		61.2	40-140				R-05
Aroclor-1260 [2C]	0.30	0.20	µg/L	0.500		59.6	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		52.8	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.16*		µg/L	2.00		57.8	30-150				
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		71.0	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.6	30-150				
LCS Dup (B183949-BSD1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.54	0.20	µg/L	0.500		109	40-140	**27.5**	*	20	R-05
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140	**34.3**	*	20	R-05
Aroclor-1260	0.46	0.20	µg/L	0.500		92.8	40-140	**41.0**	*	20	R-05
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		97.6	40-140	**48.3**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.6	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.92*		µg/L	2.00		96.2	30-150				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183949 - SW-846 3510C										
Matrix Spike (B183949-MS1)		**Source: 17H0432-02**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	0.49	0.20	µg/L	0.500	ND	97.7	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500	ND	95.2	40-140			R-05
Aroclor-1260	0.43	0.20	µg/L	0.500	ND	85.1	40-140			R-05
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500	ND	89.5	40-140			R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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17H0432

con-test ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD

ruce Street
Longmeadow, MA 01028

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Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time:
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-8-3	7/26/17	13:44		X	S	U	X								
02	WS-AOC13-SO-17-1		14:04					X	X							
03	WS-AOC13-SO-17-2		14:06					X								
04	WS-AOC13-SO-17-3		14:08					X								
05	WS-AOC13-SO-11-1		14:25					X								
06	WS-AOC13-SO-11-2A		14:26					X								
07	WS-AOC13-SO-11-2B		14:27							X			X			
08	WS-AOC13-SO-11-3		14:28					X								
09	WS-AOC13-SO-13-1		14:42					X								
10	WS-AOC13-SO-13-2A		14:43					X								

01

activated for SPLP PAH 8/9. Hold time up 8/9 to leach - JG 8/9/17

WS-AOC-13-SO-17-2 ETPH analysis per client request KS 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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7/26/17 1703

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RCRA 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-13-2B	7/26/17	14:44		X	S	U			X						
12	WS-AOC13-SO-13-3	↓	14:45		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-13-2B (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:53
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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Address:	273 Dividend Rd Rcoky Hill, CT
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Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPHs	SVOCs	~~RCRA Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
13	WS-AOC13-SO-DUP-26	7/26/17			X	S	U	X									
02 14	WS-AOC13-SO-DUP-27							X									

activated for SPLP PCB 8/9. Hold time up 8/9 to leach - JG 8/9/17

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:30
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		7/26/17 1703	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H0432

Laboratory Sample ID(s):

17H0432-01 thru 17H0432-02

Sample Date(s):

07/26/2017

List RCP Methods Used:

SW-846 8082A, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/18/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 18, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0432

Enclosed are results of analyses for samples received by the laboratory on August 9, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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B183949 10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0432

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-17-1	17H0432-01	Soil		SW-846 8270D	
WS-AOC-13-SO-DUP-27	17H0432-02	Soil		SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

Analyte & Samples(s) Qualified:

Aroclor-1016
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1016 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

Aroclor-1260 [2C]
17H0432-02[WS-AOC-13-SO-DUP-27], B183949-BLK1, B183949-BS1, B183949-BSD1, B183949-MS1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-17-1 Sampled: 7/26/2017 14:04

Sample ID: 17H0432-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	0.56	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Anthracene (SIM)	0.30	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)anthracene (SIM)	0.54	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(a)pyrene (SIM)	0.47	0.10	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(b)fluoranthene (SIM)	0.70	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Benzo(k)fluoranthene (SIM)	0.23	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Chrysene (SIM)	0.66	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluoranthene (SIM)	2.2	0.50	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.24	0.20	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Phenanthrene (SIM)	0.39	0.050	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM
Pyrene (SIM)	3.0	1.0	µg/L	1		SW-846 8270D	8/15/17	8/16/17 12:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	72.9	30-130		8/16/17 12:06
2-Fluorobiphenyl	68.2	30-130		8/16/17 12:06
p-Terphenyl-d14	56.3	30-130		8/16/17 12:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0432

Date Received: 8/9/2017

Field Sample #: WS-AOC-13-SO-DUP-27 Sampled: 7/26/2017 00:00

Sample ID: 17H0432-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/12/17	8/17/17 20:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		8/17/17 20:30
Decachlorobiphenyl [2]	98.2	30-150		8/17/17 20:30
Tetrachloro-m-xylene [1]	90.4	30-150		8/17/17 20:30
Tetrachloro-m-xylene [2]	100	30-150		8/17/17 20:30

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-02 [WS-AOC-13-SO-DUP-27]	B183949	500	5.00	08/12/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 8/9/2017 per SW-846 1312 in Batch B183685**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0432-01 [WS-AOC-13-SO-17-1]	B184190	700	0.700	08/15/17

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
Blank (B184190-BLK1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	ND	0.050	µg/L							
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*77.7*		µg/L	100		77.7	30-130			
Surrogate: 2-Fluorobiphenyl	*73.0*		µg/L	100		73.0	30-130			
Surrogate: p-Terphenyl-d14	*65.9*		µg/L	100		65.9	30-130			
LCS (B184190-BS1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	43.6	7.5	µg/L	50.0		87.2	40-140			
Acenaphthylene (SIM)	42.5	7.5	µg/L	50.0		85.0	40-140			
Anthracene (SIM)	46.3	5.0	µg/L	50.0		92.6	40-140			
Benzo(a)anthracene (SIM)	44.6	1.2	µg/L	50.0		89.1	40-140			
Benzo(a)pyrene (SIM)	47.3	2.5	µg/L	50.0		94.6	40-140			
Benzo(b)fluoranthene (SIM)	47.9	1.2	µg/L	50.0		95.8	40-140			
Benzo(g,h,i)perylene (SIM)	44.3	12	µg/L	50.0		88.6	40-140			
Benzo(k)fluoranthene (SIM)	46.6	5.0	µg/L	50.0		93.3	40-140			
Chrysene (SIM)	44.4	5.0	µg/L	50.0		88.7	40-140			
Dibenz(a,h)anthracene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.3	40-140			
Fluorene (SIM)	44.1	25	µg/L	50.0		88.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	44.7	5.0	µg/L	50.0		89.4	40-140			
2-Methylnaphthalene (SIM)	42.3	25	µg/L	50.0		84.6	40-140			
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.3	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140			
Surrogate: Nitrobenzene-d5	*89.6*		µg/L	100		89.6	30-130			
Surrogate: 2-Fluorobiphenyl	*99.0*		µg/L	100		99.0	30-130			
Surrogate: p-Terphenyl-d14	*76.5*		µg/L	100		76.5	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B184190 - SW-846 3510C										
LCS Dup (B184190-BSD1)				Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.6	40-140	11.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	11.8	20	
Anthracene (SIM)	51.6	5.0	µg/L	50.0		103	40-140	10.9	20	
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.6	40-140	11.1	20	
Benzo(a)pyrene (SIM)	53.1	2.5	µg/L	50.0		106	40-140	11.7	20	
Benzo(b)fluoranthene (SIM)	53.4	1.2	µg/L	50.0		107	40-140	10.8	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	11.2	20	
Benzo(k)fluoranthene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.6	20	
Chrysene (SIM)	49.4	5.0	µg/L	50.0		98.8	40-140	10.7	20	
Dibenz(a,h)anthracene (SIM)	50.1	5.0	µg/L	50.0		100	40-140	11.9	20	
Fluoranthene (SIM)	50.7	12	µg/L	50.0		101	40-140	10.4	20	
Fluorene (SIM)	49.3	25	µg/L	50.0		98.6	40-140	11.1	20	
Indeno(1,2,3-cd)pyrene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	11.1	20	‡
2-Methylnaphthalene (SIM)	48.0	25	µg/L	50.0		96.0	40-140	12.7	20	
Naphthalene (SIM)	48.2	25	µg/L	50.0		96.5	40-140	13.5	20	
Phenanthrene (SIM)	50.3	1.2	µg/L	50.0		101	40-140	10.8	20	
Pyrene (SIM)	50.8	25	µg/L	50.0		102	40-140	10.3	20	
Surrogate: Nitrobenzene-d5	*103*		µg/L	100		103	30-130			
Surrogate: 2-Fluorobiphenyl	*108*		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	*84.2*		µg/L	100		84.2	30-130			
Matrix Spike (B184190-MS1)	**Source: 17H0432-01**			Prepared: 08/15/17 Analyzed: 08/16/17						
Acenaphthene (SIM)	55.1	7.5	µg/L	71.4	0.562	76.4	40-140			
Acenaphthylene (SIM)	53.6	7.5	µg/L	71.4	0.117	74.8	40-140			
Anthracene (SIM)	57.8	5.0	µg/L	71.4	0.296	80.5	40-140			
Benzo(a)anthracene (SIM)	57.4	1.2	µg/L	71.4	0.539	79.5	40-140			
Benzo(a)pyrene (SIM)	60.8	2.5	µg/L	71.4	0.467	84.4	40-140			
Benzo(b)fluoranthene (SIM)	60.4	1.2	µg/L	71.4	0.702	83.6	40-140			
Benzo(g,h,i)perylene (SIM)	57.1	12	µg/L	71.4	0.249	79.6	40-140			
Benzo(k)fluoranthene (SIM)	58.2	5.0	µg/L	71.4	0.232	81.1	40-140			
Chrysene (SIM)	56.9	5.0	µg/L	71.4	0.658	78.7	40-140			
Dibenz(a,h)anthracene (SIM)	57.5	5.0	µg/L	71.4	0.0610	80.4	40-140			
Fluoranthene (SIM)	58.6	12	µg/L	71.4	2.22	79.0	40-140			
Fluorene (SIM)	54.9	25	µg/L	71.4	0.121	76.7	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	58.0	5.0	µg/L	71.4	0.244	80.9	40-140			
2-Methylnaphthalene (SIM)	53.3	25	µg/L	71.4	0.0960	74.5	40-140			
Naphthalene (SIM)	54.2	25	µg/L	71.4	0.385	75.3	40-140			
Phenanthrene (SIM)	56.2	1.2	µg/L	71.4	0.387	78.2	40-140			
Pyrene (SIM)	61.5	25	µg/L	71.4	2.97	81.9	40-140			
Surrogate: Nitrobenzene-d5	*116*		µg/L	143		81.3	30-130			
Surrogate: 2-Fluorobiphenyl	*119*		µg/L	143		83.3	30-130			
Surrogate: p-Terphenyl-d14	*83.7*		µg/L	143		58.6	30-130			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B183949 - SW-846 3510C											
Blank (B183949-BLK1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	ND	0.20	µg/L								R-05
Aroclor-1016 [2C]	ND	0.20	µg/L								R-05
Aroclor-1221	ND	0.20	µg/L								
Aroclor-1221 [2C]	ND	0.20	µg/L								
Aroclor-1232	ND	0.20	µg/L								
Aroclor-1232 [2C]	ND	0.20	µg/L								
Aroclor-1242	ND	0.20	µg/L								
Aroclor-1242 [2C]	ND	0.20	µg/L								
Aroclor-1248	ND	0.20	µg/L								
Aroclor-1248 [2C]	ND	0.20	µg/L								
Aroclor-1254	ND	0.20	µg/L								
Aroclor-1254 [2C]	ND	0.20	µg/L								
Aroclor-1260	ND	0.20	µg/L								R-05
Aroclor-1260 [2C]	ND	0.20	µg/L								R-05
Aroclor-1262	ND	0.20	µg/L								
Aroclor-1262 [2C]	ND	0.20	µg/L								
Aroclor-1268	ND	0.20	µg/L								
Aroclor-1268 [2C]	ND	0.20	µg/L								
Surrogate: Decachlorobiphenyl	*1.77*		µg/L	2.00		88.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.96*		µg/L	2.00		98.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.84*		µg/L	2.00		91.8	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*2.05*		µg/L	2.00		102	30-150				
LCS (B183949-BS1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.41	0.20	µg/L	0.500		82.3	40-140				R-05
Aroclor-1016 [2C]	0.40	0.20	µg/L	0.500		80.8	40-140				R-05
Aroclor-1260	0.31	0.20	µg/L	0.500		61.2	40-140				R-05
Aroclor-1260 [2C]	0.30	0.20	µg/L	0.500		59.6	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.06*		µg/L	2.00		52.8	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.16*		µg/L	2.00		57.8	30-150				
Surrogate: Tetrachloro-m-xylene	*1.42*		µg/L	2.00		71.0	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.55*		µg/L	2.00		77.6	30-150				
LCS Dup (B183949-BSD1)				Prepared: 08/12/17 Analyzed: 08/17/17							
Aroclor-1016	0.54	0.20	µg/L	0.500		109	40-140	**27.5**	*	20	R-05
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		114	40-140	**34.3**	*	20	R-05
Aroclor-1260	0.46	0.20	µg/L	0.500		92.8	40-140	**41.0**	*	20	R-05
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		97.6	40-140	**48.3**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.69*		µg/L	2.00		84.6	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.90*		µg/L	2.00		95.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.92*		µg/L	2.00		96.2	30-150				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183949 - SW-846 3510C										
Matrix Spike (B183949-MS1)		**Source: 17H0432-02**		Prepared: 08/12/17 Analyzed: 08/17/17						
Aroclor-1016	0.49	0.20	µg/L	0.500	ND	97.7	40-140			R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500	ND	95.2	40-140			R-05
Aroclor-1260	0.43	0.20	µg/L	0.500	ND	85.1	40-140			R-05
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500	ND	89.5	40-140			R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.65*		µg/L	2.00		82.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.58*		µg/L	2.00		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.75*		µg/L	2.00		87.6	30-150			

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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CHAIN OF CUSTODY RECORD

ruce Street
Longmeadow, MA 01028

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Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time:
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC13-SO-8-3	7/26/17	13:44		X	S	U	X								
02	WS-AOC13-SO-17-1		14:04					X	X							
03	WS-AOC13-SO-17-2		14:06					X								
04	WS-AOC13-SO-17-3		14:08					X								
05	WS-AOC13-SO-11-1		14:25					X								
06	WS-AOC13-SO-11-2A		14:26					X								
07	WS-AOC13-SO-11-2B		14:27							X			X			
08	WS-AOC13-SO-11-3		14:28					X								
09	WS-AOC13-SO-13-1		14:42					X								
10	WS-AOC13-SO-13-2A		14:43					X								

01

activated for SPLP PAH 8/9. Hold time up 8/9 to leach - JG 8/9/17

WS-AOC-13-SO-17-2 ETPH analysis per client request KS 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 1530
Relinquished by: (signature)	Date/Time: 7/26/17 17:04
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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7/26/17 1703

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con-test® ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

17G1172

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RCRA 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-13-2B	7/26/17	14:44		X	S	U			X						
12	WS-AOC13-SO-13-3	↓	14:45		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-13-2B (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/26/17 1530
Received by: (signature)	Date/Time: 7/26/17 15:53
Relinquished by: (signature)	Date/Time: 7/26/17 17:05
Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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7/26/17 1703

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

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Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

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ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPHs	SVOCs	~~RCRA Metals~~	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
13	WS-AOC13-SO-DUP-26	7/26/17			X	S	U	X									
02 14	WS-AOC13-SO-DUP-27							X									

activated for SPLP PCB 8/9. Hold time up 8/9 to leach - JG 8/9/17

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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Received by: (signature)	Date/Time: 7/26/17 1703
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
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PWSID # _____

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 7/26/17 Time 1703

How were the samples received? In Cooler T No Cooler ___ On Ice T No Ice ___
Direct from Sampling ___ Ambient ___ Melted Ice ___

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 5.7 °C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ___
Are there Rushes? F Who was notified? ___
Are there Short Holds? F Who was notified? ___
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? T
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	10
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock		7/26/17 1703	

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H0432

Laboratory Sample ID(s):

17H0432-01 thru 17H0432-02

Sample Date(s):

07/26/2017

List RCP Methods Used:

SW-846 8082A, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/18/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 11, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1603

Enclosed are results of analyses for samples received by the laboratory on August 30, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Sample Summary 3

Case Narrative 4

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Chain of Custody/Sample Receipt 10

con-test® ANALYTICAL LABORATORY

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/11/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1603

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-16-2	17H1603-01	Soil		SW-846 6020A-B	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only a select list of metals was requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1603

Date Received: 8/30/2017

Field Sample #: WS-AOC-13-SO-16-2 Sampled: 7/26/2017 15:02

Sample ID: 17H1603-01

Sample Matrix: Soil

SPLP - Metals Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/6/17	9/8/17 20:47	WSD

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Sample Extraction Data

Prep Method: SW-846 3010A-SW-846 6020A-B **Leachates were extracted on 9/5/2017 per SW-846 1312 in Batch B185509**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1603-01 [WS-AOC-13-SO-16-2]	B185650	50.0	50.0	09/06/17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

SPLP - Metals Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185650 - SW-846 3010A										
Blank (B185650-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	ND	5.0	µg/L							
Lead	ND	5.0	µg/L							
Vanadium	ND	25	µg/L							
LCS (B185650-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	251	5.0	µg/L	250		100	80-120			
Lead	248	5.0	µg/L	250		99.4	80-120			
Vanadium	236	25	µg/L	250		94.3	80-120			
LCS Dup (B185650-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chromium	257	5.0	µg/L	250		103	80-120	2.45	20	
Lead	251	5.0	µg/L	250		100	80-120	1.05	20	
Vanadium	241	25	µg/L	250		96.2	80-120	2.05	20	

con-test® ANALYTICAL LABORATORY

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications

No certified Analyses included in this Report

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G1252

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CHAIN OF CUSTODY R 17H1603

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
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Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
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ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC13-SO-16-1	7/24/17	15:00		X	S	U	X				X				
2	WS-AOC13-SO-16-2		15:02					X				X				
3	WS-AOC13-SO-16-3		15:04					X								
4	WS-AOC13-SO-14-1		15:07					X								
5	WS-AOC13-SO-14-2		15:08					X								
6	WS-AOC13-SO-14-3A		15:09					X								
7	WS-AOC13-SO-14-3B		15:10							X						
8	WS-AOC13-SO-15-1		15:20					X								
9	WS-AOC13-SO-15-2		15:22					X								
10	WS-AOC13-SO-15-3		15:24					X								

WS-AOC-13-SO-16-2 ETPH per client request KS 7/31

activated for SPLP Cr, Pb, V - 8/30 JMG

WS-AOC-13-SO-15-2 ETPH per client request KS 7/31

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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GW = Ground Water
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DW = Drinking Water
A = Air
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ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC13-SO-15-3 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1505
Received by: (signature) [signature]	Date/Time: 7/27/17 1505
Relinquished by: (signature) [signature] 7-27-17	Date/Time: 7:45
Received by: (signature) [signature] 7/27/17	Date/Time: 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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17G1252

con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	SVOCs	RSR 15 Metals	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC13-SO-12-1	7/26/17	15:34		X	S	U	X								
12	WS-AOC13-SO-12-2	↓	15:35		↓	↓	↓	X								
13	WS-AOC13-SO-12-3A	↓	15:36		↓	↓	↓	X								
14	WS-AOC13-SO-12-3B	↓	15:37		↓	↓	↓			X						
15	WS-AOC13-SO-20-1	7/27/17	09:12		↓	↓	↓	X								
16	WS-AOC13-SO-20-2	↓	09:13		↓	↓	↓	X								
17	WS-AOC13-SO-20-3	↓	09:14		↓	↓	↓	X								
18	WS-AOC13-SO-20-4A	↓	09:15		↓	↓	↓	X								
19	WS-AOC13-SO-20-4B	↓	09:16		↓	↓	↓			X						
20	WS-AOC13-SO-19-1	↓	9:04		↓	↓	↓	X								

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/27/17	1525
Received by: (signature) [signature]	Date/Time: 7/27/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7-27-17 7:45
Received by: (signature) [signature]	Date/Time: 7/27/17 1995
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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39 Spruce St.
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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/27/17 Time 1945

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.0, 2.3, 2.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	2 3
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1603

Laboratory Sample ID(s):

17H1603-01

Sample Date(s):

07/26/2017

List RCP Methods Used:

SW-846 6020A-B

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/11/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 14, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H1675

Enclosed are results of analyses for samples received by the laboratory on September 1, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC13-SO-33	17H1675-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-34	17H1675-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-35	17H1675-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-36	17H1675-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-37	17H1675-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-38	17H1675-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC13-SO-39	17H1675-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-17-0	17H1675-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-18-0	17H1675-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-19-0	17H1675-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC7-SO-20-0	17H1675-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC8-SO-3-0	17H1675-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-45-0	17H1675-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC8-SE-25	17H1675-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC10-SE-15	17H1675-15	Soil		SM 2540G	
				SW-846 8082A	
Trip Blank	17H1675-16	Trip Blank Soil		SW-846 8260C	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1675

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
Equipment Blank-58	17H1675-17	Equipment Blank Water		CTDEP ETPH	
				SW-846 6020A-B	
				SW-846 7470A	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

SW-846 6010C-D

Qualifications:

DL-04

Elevated reporting limit due to high concentration of an interfering analyte(s).

Analyte & Samples(s) Qualified:

Silver
17H1675-14[WS-AOC8-SE-25]

Thallium
17H1675-14[WS-AOC8-SE-25]

SW-846 8082A

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Decachlorobiphenyl [2C]
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

Tetrachloro-m-xylene [2C]
17H1675-05[WS-AOC13-SO-37], 17H1675-15[WS-AOC10-SE-15]

SW-846 8260C

Qualifications:

L-01

Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
B185788-BS1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Tetrahydrofuran
17H1675-14[WS-AOC8-SE-25], B185515-BLK1, B185515-BS1

V-20

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

Analyte & Samples(s) Qualified:

2,2-Dichloropropane
B185788-BS1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Fluoranthene
17H1675-14[WS-AOC8-SE-25]

Pyrene
17H1675-14[WS-AOC8-SE-25]

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

L-04

Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

4-Chloroaniline

17H1675-14[WS-AOC8-SE-25], 17H1675-14RE1[WS-AOC8-SE-25], B185658-BLK1, B185658-BS1, B185658-BSD1

RL-03

Elevated reporting limit based on lowest point in calibration.
Requested reporting limit not met.

Analyte & Samples(s) Qualified:

Bis(2-Ethylhexyl)phthalate

17H1675-17[Equipment Blank-58]

Hexachlorobenzene

17H1675-17[Equipment Blank-58]

Pentachlorophenol

17H1675-17[Equipment Blank-58]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Hexachlorocyclopentadiene

17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-BSD1

V-16

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

Analyte & Samples(s) Qualified:

Pentachloronitrobenzene

17H1675-14[WS-AOC8-SE-25], 17H1675-17[Equipment Blank-58], B185658-BLK1, B185658-BS1, B185658-BSD1, B185689-BLK1, B185689-BS1, B185689-BSD1

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

SW-846 8260C

All water reporting limits specified on the chain-of-custody were met except for Acrylonitrile, where the most protective criteria are not met since the laboratory cannot achieve the required RCP calibration criteria at these levels, unless otherwise listed in this narrative.

SW-846 8270D

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for water – limits between 10 and 150% depending on the compound (see QC summary for limits): Benzoic Acid, Dimethylphthalate, Bis(2-chloroisopropyl)ether, Hexachlorocyclopentadiene, Pyridine, 4-Nitrophenol, and Phenol.

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33 Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1260 [2]	0.17	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		9/13/17 17:10
Decachlorobiphenyl [2]	94.9	30-150		9/13/17 17:10
Tetrachloro-m-xylene [1]	86.5	30-150		9/13/17 17:10
Tetrachloro-m-xylene [2]	89.6	30-150		9/13/17 17:10

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-33 Sampled: 8/31/2017 10:00

Sample ID: 17H1675-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34 Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1260 [2]	0.24	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		9/13/17 17:27
Decachlorobiphenyl [2]	89.8	30-150		9/13/17 17:27
Tetrachloro-m-xylene [1]	81.9	30-150		9/13/17 17:27
Tetrachloro-m-xylene [2]	85.4	30-150		9/13/17 17:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-34 Sampled: 8/31/2017 10:10

Sample ID: 17H1675-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35 Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1260 [2]	0.21	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 17:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		9/13/17 17:44
Decachlorobiphenyl [2]	94.1	30-150		9/13/17 17:44
Tetrachloro-m-xylene [1]	86.5	30-150		9/13/17 17:44
Tetrachloro-m-xylene [2]	88.4	30-150		9/13/17 17:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-35 Sampled: 8/31/2017 10:20

Sample ID: 17H1675-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36 Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1260 [2]	0.61	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		9/13/17 18:02
Decachlorobiphenyl [2]	96.6	30-150		9/13/17 18:02
Tetrachloro-m-xylene [1]	87.8	30-150		9/13/17 18:02
Tetrachloro-m-xylene [2]	91.9	30-150		9/13/17 18:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-36 Sampled: 8/31/2017 10:30

Sample ID: 17H1675-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37 Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1221 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1232 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1242 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1248 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1254 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1260 [1]	6.2	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1262 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB
Aroclor-1268 [1]	ND	0.94	mg/Kg dry	40		SW-846 8082A	9/8/17	9/14/17 5:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/14/17 5:10
Decachlorobiphenyl [2]	*	30-150	S-01	9/14/17 5:10
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/14/17 5:10
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/14/17 5:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-37 Sampled: 8/31/2017 10:40

Sample ID: 17H1675-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38 Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1260 [2]	0.32	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:36	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		9/13/17 18:36
Decachlorobiphenyl [2]	83.5	30-150		9/13/17 18:36
Tetrachloro-m-xylene [1]	83.8	30-150		9/13/17 18:36
Tetrachloro-m-xylene [2]	84.2	30-150		9/13/17 18:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-38 Sampled: 8/31/2017 10:50

Sample ID: 17H1675-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39 Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1260 [1]	0.14	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 18:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		9/13/17 18:54
Decachlorobiphenyl [2]	98.1	30-150		9/13/17 18:54
Tetrachloro-m-xylene [1]	89.4	30-150		9/13/17 18:54
Tetrachloro-m-xylene [2]	92.5	30-150		9/13/17 18:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC13-SO-39 Sampled: 8/31/2017 11:00

Sample ID: 17H1675-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0 Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1260 [2]	0.096	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 19:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.4	30-150		9/13/17 19:58
Decachlorobiphenyl [2]	64.1	30-150		9/13/17 19:58
Tetrachloro-m-xylene [1]	61.4	30-150		9/13/17 19:58
Tetrachloro-m-xylene [2]	63.0	30-150		9/13/17 19:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-17-0 Sampled: 8/31/2017 11:10

Sample ID: 17H1675-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.2		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0 Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1260 [1]	0.86	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.7	30-150		9/13/17 20:15
Decachlorobiphenyl [2]	72.6	30-150		9/13/17 20:15
Tetrachloro-m-xylene [1]	64.7	30-150		9/13/17 20:15
Tetrachloro-m-xylene [2]	66.6	30-150		9/13/17 20:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-18-0 Sampled: 8/31/2017 11:15

Sample ID: 17H1675-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.4		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0 Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1260 [2]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.0	30-150		9/13/17 20:32
Decachlorobiphenyl [2]	66.5	30-150		9/13/17 20:32
Tetrachloro-m-xylene [1]	61.1	30-150		9/13/17 20:32
Tetrachloro-m-xylene [2]	64.4	30-150		9/13/17 20:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-19-0 Sampled: 8/31/2017 11:20

Sample ID: 17H1675-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.9		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0 Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 20:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		9/13/17 20:49
Decachlorobiphenyl [2]	58.3	30-150		9/13/17 20:49
Tetrachloro-m-xylene [1]	56.8	30-150		9/13/17 20:49
Tetrachloro-m-xylene [2]	58.9	30-150		9/13/17 20:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC7-SO-20-0 Sampled: 8/31/2017 11:30

Sample ID: 17H1675-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0 Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1260 [2]	0.31	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.7	30-150		9/13/17 21:07
Decachlorobiphenyl [2]	56.5	30-150		9/13/17 21:07
Tetrachloro-m-xylene [1]	44.1	30-150		9/13/17 21:07
Tetrachloro-m-xylene [2]	45.2	30-150		9/13/17 21:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SO-3-0 Sampled: 8/31/2017 11:40

Sample ID: 17H1675-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.0		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0 Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1260 [1]	0.27	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 21:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		9/13/17 21:24
Decachlorobiphenyl [2]	69.9	30-150		9/13/17 21:24
Tetrachloro-m-xylene [1]	64.3	30-150		9/13/17 21:24
Tetrachloro-m-xylene [2]	66.1	30-150		9/13/17 21:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC9-SO-45-0 Sampled: 8/31/2017 12:00

Sample ID: 17H1675-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	0.11	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Acrylonitrile	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Benzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromodichloromethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromoform	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Bromomethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Butanone (MEK)	ND	0.044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
sec-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
tert-Butylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Disulfide	ND	0.0066	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Carbon Tetrachloride	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chlorodibromomethane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroethane	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloroform	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Chloromethane	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Chlorotoluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dibromoethane (EDB)	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dibromomethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,4-Dichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,4-Dichloro-2-butene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloroethylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,2-Dichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3-Dichloropropane	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2,2-Dichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1-Dichloropropene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
cis-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
trans-1,3-Dichloropropene	ND	0.0011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Ethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Hexachlorobutadiene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
2-Hexanone (MBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Isopropylbenzene (Cumene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Methylene Chloride	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Naphthalene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
n-Propylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Styrene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1,2-Tetrachloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2,2-Tetrachloroethane	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrachloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Tetrahydrofuran	ND	0.011	mg/Kg dry	1	V-16	SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Toluene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trichlorobenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,1-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloroethane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichloroethylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Trichlorofluoromethane (Freon 11)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,3-Trichloropropane	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,2,4-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
1,3,5-Trimethylbenzene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
Vinyl Chloride	ND	0.011	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
m+p Xylene	ND	0.0044	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF
o-Xylene	ND	0.0022	mg/Kg dry	1		SW-846 8260C	9/5/17	9/5/17 14:37	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	104	70-130		9/5/17 14:37
Toluene-d8	104	70-130		9/5/17 14:37
4-Bromofluorobenzene	99.8	70-130		9/5/17 14:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Acenaphthylene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Aniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Aniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Anthracene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)anthracene	2.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)anthracene	2.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(a)pyrene	1.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(a)pyrene	1.8	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(b)fluoranthene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(b)fluoranthene	2.9	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(g,h,i)perylene	1.4	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(g,h,i)perylene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Benzo(k)fluoranthene	1.0	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Benzo(k)fluoranthene	1.2	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethoxy)methane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethoxy)methane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroethyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroethyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-chloroisopropyl)ether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-chloroisopropyl)ether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Bromophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Bromophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Butylbenzylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Butylbenzylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Carbazole	0.53	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Carbazole	0.49	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloroaniline	ND	0.87	mg/Kg dry	1	L-04	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloroaniline	ND	1.7	mg/Kg dry	2	L-04	SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chloro-3-methylphenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chloro-3-methylphenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chloronaphthalene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chloronaphthalene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Chlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Chlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Chlorophenylphenylether	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Chlorophenylphenylether	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Chrysene	2.9	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Chrysene	2.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Dibenz(a,h)anthracene	0.38	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenz(a,h)anthracene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dibenzofuran	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dibenzofuran	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-butylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-butylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3,3-Dichlorobenzidine	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3,3-Dichlorobenzidine	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Diethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Diethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dimethylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dimethylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Dimethylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Dimethylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4,6-Dinitro-2-methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4,6-Dinitro-2-methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,6-Dinitrotoluene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,6-Dinitrotoluene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Di-n-octylphthalate	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Di-n-octylphthalate	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluoranthene	7.5	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluoranthene	6.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Fluorene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorobutadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorobutadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachlorocyclopentadiene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachlorocyclopentadiene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Hexachloroethane	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Hexachloroethane	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Indeno(1,2,3-cd)pyrene	1.5	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Indeno(1,2,3-cd)pyrene	1.3	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Isophorone	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Isophorone	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylnaphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3/4-Methylphenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3/4-Methylphenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Naphthalene	0.23	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Naphthalene	ND	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
3-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
3-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitroaniline	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitroaniline	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Nitrobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Nitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2-Nitrophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2-Nitrophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
4-Nitrophenol	ND	0.87	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
4-Nitrophenol	ND	1.7	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodiphenylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodiphenylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
N-Nitrosodi-n-propylamine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
N-Nitrosodi-n-propylamine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachloronitrobenzene	ND	0.45	mg/Kg dry	1	V-16	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachloronitrobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pentachlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pentachlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenanthrene	4.1	0.22	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenanthrene	3.6	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Phenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Phenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyrene	6.9	0.22	mg/Kg dry	1	E	SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyrene	5.1	0.45	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
Pyridine	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
Pyridine	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
1,2,4-Trichlorobenzene	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
1,2,4-Trichlorobenzene	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,5-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,5-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL
2,4,6-Trichlorophenol	ND	0.45	mg/Kg dry	1		SW-846 8270D	9/6/17	9/8/17 16:13	BGL
2,4,6-Trichlorophenol	ND	0.89	mg/Kg dry	2		SW-846 8270D	9/6/17	9/11/17 16:08	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	46.8	30-130		9/8/17 16:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Surrogates		**% Recovery**	**Recovery Limits**		**Flag/Qual**				
2-Fluorophenol		39.8	30-130					9/11/17 16:08	
Phenol-d6		47.3	30-130					9/8/17 16:13	
Phenol-d6		41.7	30-130					9/11/17 16:08	
Nitrobenzene-d5		50.2	30-130					9/8/17 16:13	
Nitrobenzene-d5		46.1	30-130					9/11/17 16:08	
2-Fluorobiphenyl		50.5	30-130					9/8/17 16:13	
2-Fluorobiphenyl		48.4	30-130					9/11/17 16:08	
2,4,6-Tribromophenol		49.2	30-130					9/8/17 16:13	
2,4,6-Tribromophenol		44.8	30-130					9/11/17 16:08	
p-Terphenyl-d14		63.4	30-130					9/8/17 16:13	
p-Terphenyl-d14		49.9	30-130					9/11/17 16:08	

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1254 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1260 [1]	2.4	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	9/8/17	9/14/17 5:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.6	30-150		9/14/17 5:27
Decachlorobiphenyl [2]	78.4	30-150		9/14/17 5:27
Tetrachloro-m-xylene [1]	64.7	30-150		9/14/17 5:27
Tetrachloro-m-xylene [2]	65.6	30-150		9/14/17 5:27

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	600	66	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/13/17 11:53	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.8	50-150		9/13/17 11:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	30	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Arsenic	39	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Barium	430	3.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Beryllium	ND	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Cadmium	3.9	0.33	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Chromium	100	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Copper	310	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Lead	1400	0.98	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Mercury	0.21	0.033	mg/Kg dry	1		SW-846 7471B	9/6/17	9/7/17 14:15	TJK
Nickel	180	0.65	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Selenium	ND	6.5	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Silver	ND	13	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Thallium	ND	65	mg/Kg dry	20	DL-04	SW-846 6010C-D	9/6/17	9/8/17 13:18	QNW
Vanadium	1400	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW
Zinc	1300	1.3	mg/Kg dry	1		SW-846 6010C-D	9/6/17	9/8/17 12:15	QNW

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC8-SE-25 Sampled: 8/31/2017 12:30

Sample ID: 17H1675-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15 Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1221 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1232 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1242 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1248 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1254 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1260 [2]	430	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1262 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB
Aroclor-1268 [1]	ND	100	mg/Kg dry	4000		SW-846 8082A	9/8/17	9/14/17 6:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/14/17 6:54
Decachlorobiphenyl [2]	*	30-150	S-01	9/14/17 6:54
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/14/17 6:54
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/14/17 6:54

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: WS-AOC10-SE-15 Sampled: 8/31/2017 13:00

Sample ID: 17H1675-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.6		% Wt	1		SM 2540G	9/6/17	9/7/17 7:42	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	0.18	0.10	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Trip Blank Sampled: 8/31/2017 00:00

Sample ID: 17H1675-16

Sample Matrix: Trip Blank Soil

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	9/6/17	9/6/17 15:22	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.0	70-130		9/6/17 15:22
Toluene-d8	93.7	70-130		9/6/17 15:22
4-Bromofluorobenzene	88.7	70-130		9/6/17 15:22

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acetone	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Acrylonitrile	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Benzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromodichloromethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromoform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Bromomethane	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Butanone (MEK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
sec-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
tert-Butylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Disulfide	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Carbon Tetrachloride	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chlorodibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloroform	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Chloromethane	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Chlorotoluene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dibromoethane (EDB)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dibromomethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,4-Dichlorobenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,2-Dichloroethylene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,2-Dichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2,2-Dichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
cis-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
trans-1,3-Dichloropropene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Ethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Hexachlorobutadiene	ND	0.60	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
2-Hexanone (MBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Isopropylbenzene (Cumene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Volatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Methylene Chloride	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Naphthalene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
n-Propylbenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Styrene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrachloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Tetrahydrofuran	ND	10	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Toluene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichlorobenzene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trichlorobenzene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,1-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloroethane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichloroethylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,3-Trichloropropane	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,2,4-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
1,3,5-Trimethylbenzene	ND	0.50	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
Vinyl Chloride	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
m+p Xylene	ND	2.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD
o-Xylene	ND	1.0	µg/L	1		SW-846 8260C	9/8/17	9/8/17 11:01	LBD

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	117	70-130		9/8/17 11:01
Toluene-d8	103	70-130		9/8/17 11:01
4-Bromofluorobenzene	96.4	70-130		9/8/17 11:01

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Aniline	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Bis(2-chloroethoxy)methane	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroethyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-chloroisopropyl)ether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Bromophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Butylbenzylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Carbazole	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chloro-3-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chloronaphthalene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Chlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Chlorophenylphenylether	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Dibenzofuran	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-butylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3,3-Dichlorobenzidine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Diethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dimethylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Dimethylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4,6-Dinitro-2-methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,6-Dinitrotoluene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Di-n-octylphthalate	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Hexachlorobenzene	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorobutadiene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachlorocyclopentadiene	ND	10	µg/L	1	V-05	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Hexachloroethane	ND	2.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Isophorone	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
2-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3/4-Methylphenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
2-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
3-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitroaniline	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Nitrobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
4-Nitrophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodiphenylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
N-Nitrosodi-n-propylamine	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachloronitrobenzene	ND	10	µg/L	1	V-16	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pentachlorophenol	ND	5.0	µg/L	1	RL-03	SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Phenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/7/17	9/11/17 15:02	CJM
Pyridine	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
1,2,4-Trichlorobenzene	ND	5.0	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,5-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL
2,4,6-Trichlorophenol	ND	10	µg/L	1		SW-846 8270D	9/7/17	9/8/17 10:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	42.3	15-110		9/8/17 10:48
Phenol-d6	25.7	15-110		9/8/17 10:48
Nitrobenzene-d5	70.2	30-130		9/11/17 15:02
Nitrobenzene-d5	69.6	30-130		9/8/17 10:48
2-Fluorobiphenyl	70.6	30-130		9/8/17 10:48
2-Fluorobiphenyl	72.2	30-130		9/11/17 15:02
2,4,6-Tribromophenol	82.1	15-110		9/8/17 10:48
p-Terphenyl-d14	63.2	30-130		9/11/17 15:02
p-Terphenyl-d14	90.0	30-130		9/8/17 10:48

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1221 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1232 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1242 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1248 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1254 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1260 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1262 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL
Aroclor-1268 [1]	ND	0.19	µg/L	1		SW-846 8082A	9/7/17	9/8/17 11:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.2	30-150		9/8/17 11:31
Decachlorobiphenyl [2]	60.4	30-150		9/8/17 11:31
Tetrachloro-m-xylene [1]	76.8	30-150		9/8/17 11:31
Tetrachloro-m-xylene [2]	75.7	30-150		9/8/17 11:31

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	0.075	mg/L	1		CTDEP ETPH	9/7/17	9/12/17 19:15	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.8	50-150		9/12/17 19:15

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1675

Date Received: 9/1/2017

Field Sample #: Equipment Blank-58 Sampled: 8/31/2017 08:00

Sample ID: 17H1675-17

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Barium	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Chromium	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Copper	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Lead	ND	5.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	9/6/17	9/7/17 9:06	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	9/8/17	9/11/17 14:27	WSD

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185980	30.0	1.00	09/12/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185690	1000	1.00	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1675-01 [WS-AOC13-SO-33]	B185578	09/06/17
17H1675-02 [WS-AOC13-SO-34]	B185578	09/06/17
17H1675-03 [WS-AOC13-SO-35]	B185578	09/06/17
17H1675-04 [WS-AOC13-SO-36]	B185578	09/06/17
17H1675-05 [WS-AOC13-SO-37]	B185578	09/06/17
17H1675-06 [WS-AOC13-SO-38]	B185578	09/06/17
17H1675-07 [WS-AOC13-SO-39]	B185578	09/06/17
17H1675-08 [WS-AOC7-SO-17-0]	B185578	09/06/17
17H1675-09 [WS-AOC7-SO-18-0]	B185578	09/06/17
17H1675-10 [WS-AOC7-SO-19-0]	B185578	09/06/17
17H1675-11 [WS-AOC7-SO-20-0]	B185578	09/06/17
17H1675-12 [WS-AOC8-SO-3-0]	B185578	09/06/17
17H1675-13 [WS-AOC9-SO-45-0]	B185578	09/06/17
17H1675-14 [WS-AOC8-SE-25]	B185578	09/06/17
17H1675-15 [WS-AOC10-SE-15]	B185578	09/06/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185638	1.00	50.0	09/06/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185847	50.0	50.0	09/08/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185607	6.00	6.00	09/06/17

Prep Method: SW-846 7471-SW-846 7471B

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185635	0.604	50.0	09/06/17

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Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-01 [WS-AOC13-SO-33]	B185858	10.3	10.0	09/08/17
17H1675-02 [WS-AOC13-SO-34]	B185858	10.4	10.0	09/08/17
17H1675-03 [WS-AOC13-SO-35]	B185858	10.3	10.0	09/08/17
17H1675-04 [WS-AOC13-SO-36]	B185858	10.4	10.0	09/08/17
17H1675-05 [WS-AOC13-SO-37]	B185858	10.2	10.0	09/08/17
17H1675-06 [WS-AOC13-SO-38]	B185858	10.0	10.0	09/08/17
17H1675-07 [WS-AOC13-SO-39]	B185858	10.0	10.0	09/08/17
17H1675-08 [WS-AOC7-SO-17-0]	B185858	10.0	10.0	09/08/17
17H1675-09 [WS-AOC7-SO-18-0]	B185858	10.3	10.0	09/08/17
17H1675-10 [WS-AOC7-SO-19-0]	B185858	10.4	10.0	09/08/17
17H1675-11 [WS-AOC7-SO-20-0]	B185858	10.1	10.0	09/08/17
17H1675-12 [WS-AOC8-SO-3-0]	B185858	10.0	10.0	09/08/17
17H1675-13 [WS-AOC9-SO-45-0]	B185858	10.1	10.0	09/08/17
17H1675-14 [WS-AOC8-SE-25]	B185858	10.1	10.0	09/08/17
17H1675-15 [WS-AOC10-SE-15]	B185858	10.3	10.0	09/08/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185770	950	9.00	09/07/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185515	5.92	10.0	09/05/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-16 [Trip Blank]	B185582	5.00	10.0	09/06/17

Prep Method: SW-846 5030B-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185788	5	5.00	09/08/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1675-14 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17
17H1675-14RE1 [WS-AOC8-SE-25]	B185658	30.0	1.00	09/06/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185689	1000	1.00	09/07/17

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1675-17 [Equipment Blank-58]	B185949	1000	1.00	09/07/17

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185515 - SW-846 5035										
Blank (B185515-BLK1)				Prepared & Analyzed: 09/05/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185515 - SW-846 5035										
Blank (B185515-BLK1)				Prepared & Analyzed: 09/05/17						
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							V-16
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet							
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet							
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet							
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet							
Vinyl Chloride	ND	0.010	mg/Kg wet							
m+p Xylene	ND	0.0040	mg/Kg wet							
o-Xylene	ND	0.0020	mg/Kg wet							
Surrogate: 1,2-Dichloroethane-d4	*0.0582*		mg/Kg wet	0.0500		116	70-130			
Surrogate: Toluene-d8	*0.0530*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0511*		mg/Kg wet	0.0500		102	70-130			
LCS (B185515-BS1)				Prepared & Analyzed: 09/05/17						
Acetone	0.197	0.10	mg/Kg wet	0.200		98.4	70-130			
Acrylonitrile	0.0233	0.0060	mg/Kg wet	0.0200		117	70-130			
Benzene	0.0191	0.0020	mg/Kg wet	0.0200		95.7	70-130			
Bromobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.5	70-130			
Bromodichloromethane	0.0190	0.0020	mg/Kg wet	0.0200		95.1	70-130			
Bromoform	0.0172	0.0020	mg/Kg wet	0.0200		86.0	70-130			
Bromomethane	0.0207	0.010	mg/Kg wet	0.0200		103	70-130			
2-Butanone (MEK)	0.225	0.040	mg/Kg wet	0.200		113	70-130			
n-Butylbenzene	0.0182	0.0020	mg/Kg wet	0.0200		91.0	70-130			
sec-Butylbenzene	0.0203	0.0020	mg/Kg wet	0.0200		102	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		103	70-130			
Carbon Disulfide	0.229	0.0060	mg/Kg wet	0.200		114	70-130			
Carbon Tetrachloride	0.0197	0.0020	mg/Kg wet	0.0200		98.4	70-130			
Chlorobenzene	0.0178	0.0020	mg/Kg wet	0.0200		88.8	70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Chloroethane	0.0183	0.020	mg/Kg wet	0.0200		91.6	70-130			
Chloroform	0.0192	0.0040	mg/Kg wet	0.0200		95.9	70-130			
Chloromethane	0.0220	0.010	mg/Kg wet	0.0200		110	70-130			
2-Chlorotoluene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
4-Chlorotoluene	0.0181	0.0020	mg/Kg wet	0.0200		90.5	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
1,2-Dibromoethane (EDB)	0.0202	0.0010	mg/Kg wet	0.0200		101	70-130			
Dibromomethane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,2-Dichlorobenzene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
1,3-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,4-Dichlorobenzene	0.0189	0.0020	mg/Kg wet	0.0200		94.6	70-130			
trans-1,4-Dichloro-2-butene	0.0189	0.0040	mg/Kg wet	0.0200		94.5	70-130			
Dichlorodifluoromethane (Freon 12)	0.0185	0.020	mg/Kg wet	0.0200		92.3	70-130			
1,1-Dichloroethane	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloroethane	0.0235	0.0020	mg/Kg wet	0.0200		117	70-130			
1,1-Dichloroethylene	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185515 - SW-846 5035										
LCS (B185515-BS1)				Prepared & Analyzed: 09/05/17						
cis-1,2-Dichloroethylene	0.0204	0.0020	mg/Kg wet	0.0200		102	70-130			
trans-1,2-Dichloroethylene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130			
1,2-Dichloropropane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,3-Dichloropropane	0.0191	0.0010	mg/Kg wet	0.0200		95.5	70-130			
2,2-Dichloropropane	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
1,1-Dichloropropene	0.0186	0.0020	mg/Kg wet	0.0200		93.2	70-130			
cis-1,3-Dichloropropene	0.0198	0.0010	mg/Kg wet	0.0200		99.2	70-130			
trans-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
Ethylbenzene	0.0181	0.0020	mg/Kg wet	0.0200		90.4	70-130			
Hexachlorobutadiene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
2-Hexanone (MBK)	0.212	0.020	mg/Kg wet	0.200		106	70-130			
Isopropylbenzene (Cumene)	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0196	0.0040	mg/Kg wet	0.0200		98.1	70-130			
Methylene Chloride	0.0228	0.020	mg/Kg wet	0.0200		114	70-130			
4-Methyl-2-pentanone (MIBK)	0.218	0.020	mg/Kg wet	0.200		109	70-130			
Naphthalene	0.0173	0.0040	mg/Kg wet	0.0200		86.3	70-130			
n-Propylbenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
Styrene	0.0177	0.0020	mg/Kg wet	0.0200		88.3	70-130			
1,1,1,2-Tetrachloroethane	0.0198	0.0020	mg/Kg wet	0.0200		99.1	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Tetrahydrofuran	0.0158	0.010	mg/Kg wet	0.0200		79.2	70-130			V-16
Toluene	0.0191	0.0020	mg/Kg wet	0.0200		95.4	70-130			
1,2,3-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,2,4-Trichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
1,1,1-Trichloroethane	0.0221	0.0020	mg/Kg wet	0.0200		110	70-130			
1,1,2-Trichloroethane	0.0180	0.0020	mg/Kg wet	0.0200		89.8	70-130			
Trichloroethylene	0.0196	0.0020	mg/Kg wet	0.0200		98.1	70-130			
Trichlorofluoromethane (Freon 11)	0.0255	0.010	mg/Kg wet	0.0200		128	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		97.9	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0233	0.010	mg/Kg wet	0.0200		117	70-130			
1,2,4-Trimethylbenzene	0.0201	0.0020	mg/Kg wet	0.0200		100	70-130			
1,3,5-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.9	70-130			
Vinyl Chloride	0.0202	0.010	mg/Kg wet	0.0200		101	70-130			
m+p Xylene	0.0368	0.0040	mg/Kg wet	0.0400		92.0	70-130			
o-Xylene	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0555*		mg/Kg wet	0.0500		111	70-130			
Surrogate: Toluene-d8	*0.0527*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0496*		mg/Kg wet	0.0500		99.1	70-130			
Batch B185582 - SW-846 5035										
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17						
Acetone	ND	0.10	mg/Kg wet							
Acrylonitrile	ND	0.0060	mg/Kg wet							
Benzene	ND	0.0020	mg/Kg wet							
Bromobenzene	ND	0.0020	mg/Kg wet							
Bromodichloromethane	ND	0.0020	mg/Kg wet							
Bromoform	ND	0.0020	mg/Kg wet							
Bromomethane	ND	0.010	mg/Kg wet							
2-Butanone (MEK)	ND	0.040	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035										
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17						
n-Butylbenzene	ND	0.0020	mg/Kg wet							
sec-Butylbenzene	ND	0.0020	mg/Kg wet							
tert-Butylbenzene	ND	0.0020	mg/Kg wet							
Carbon Disulfide	ND	0.0060	mg/Kg wet							
Carbon Tetrachloride	ND	0.0020	mg/Kg wet							
Chlorobenzene	ND	0.0020	mg/Kg wet							
Chlorodibromomethane	ND	0.0010	mg/Kg wet							
Chloroethane	ND	0.020	mg/Kg wet							
Chloroform	ND	0.0040	mg/Kg wet							
Chloromethane	ND	0.010	mg/Kg wet							
2-Chlorotoluene	ND	0.0020	mg/Kg wet							
4-Chlorotoluene	ND	0.0020	mg/Kg wet							
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0020	mg/Kg wet							
1,2-Dibromoethane (EDB)	ND	0.0010	mg/Kg wet							
Dibromomethane	ND	0.0020	mg/Kg wet							
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet							
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet							
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet							
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet							
1,1-Dichloroethane	ND	0.0020	mg/Kg wet							
1,2-Dichloroethane	ND	0.0020	mg/Kg wet							
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet							
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet							
1,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,3-Dichloropropane	ND	0.0010	mg/Kg wet							
2,2-Dichloropropane	ND	0.0020	mg/Kg wet							
1,1-Dichloropropene	ND	0.0020	mg/Kg wet							
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet							
Ethylbenzene	ND	0.0020	mg/Kg wet							
Hexachlorobutadiene	ND	0.0020	mg/Kg wet							
2-Hexanone (MBK)	ND	0.020	mg/Kg wet							
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet							
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet							
Methyl tert-Butyl Ether (MTBE)	ND	0.0040	mg/Kg wet							
Methylene Chloride	ND	0.020	mg/Kg wet							
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet							
Naphthalene	ND	0.0040	mg/Kg wet							
n-Propylbenzene	ND	0.0020	mg/Kg wet							
Styrene	ND	0.0020	mg/Kg wet							
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet							
Tetrachloroethylene	ND	0.0020	mg/Kg wet							
Tetrahydrofuran	ND	0.010	mg/Kg wet							
Toluene	ND	0.0020	mg/Kg wet							
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet							
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet							
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet							
Trichloroethylene	ND	0.0020	mg/Kg wet							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035											
Blank (B185582-BLK1)				Prepared & Analyzed: 09/06/17							
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet								
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet								
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet								
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet								
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet								
Vinyl Chloride	ND	0.010	mg/Kg wet								
m+p Xylene	ND	0.0040	mg/Kg wet								
o-Xylene	ND	0.0020	mg/Kg wet								
Surrogate: 1,2-Dichloroethane-d4	*0.0474*		mg/Kg wet	0.0500		94.9		70-130			
Surrogate: Toluene-d8	*0.0480*		mg/Kg wet	0.0500		96.1		70-130			
Surrogate: 4-Bromofluorobenzene	*0.0457*		mg/Kg wet	0.0500		91.3		70-130			
LCS (B185582-BS1)				Prepared & Analyzed: 09/06/17							
Acetone	0.136	0.10	mg/Kg wet	0.200		**68.0**	*	70-130			
Acrylonitrile	0.0193	0.0060	mg/Kg wet	0.0200		96.3		70-130			
Benzene	0.0203	0.0020	mg/Kg wet	0.0200		101		70-130			
Bromobenzene	0.0216	0.0020	mg/Kg wet	0.0200		108		70-130			
Bromodichloromethane	0.0229	0.0020	mg/Kg wet	0.0200		114		70-130			
Bromoform	0.0215	0.0020	mg/Kg wet	0.0200		108		70-130			
Bromomethane	0.0232	0.010	mg/Kg wet	0.0200		116		70-130			
2-Butanone (MEK)	0.171	0.040	mg/Kg wet	0.200		85.5		70-130			
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.5		70-130			
sec-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.7		70-130			
tert-Butylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		98.9		70-130			
Carbon Disulfide	0.203	0.0060	mg/Kg wet	0.200		102		70-130			
Carbon Tetrachloride	0.0202	0.0020	mg/Kg wet	0.0200		101		70-130			
Chlorobenzene	0.0227	0.0020	mg/Kg wet	0.0200		114		70-130			
Chlorodibromomethane	0.0216	0.0010	mg/Kg wet	0.0200		108		70-130			
Chloroethane	0.0202	0.020	mg/Kg wet	0.0200		101		70-130			
Chloroform	0.0208	0.0040	mg/Kg wet	0.0200		104		70-130			
Chloromethane	0.0197	0.010	mg/Kg wet	0.0200		98.7		70-130			
2-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		111		70-130			
4-Chlorotoluene	0.0221	0.0020	mg/Kg wet	0.0200		110		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0190	0.0020	mg/Kg wet	0.0200		95.1		70-130			
1,2-Dibromoethane (EDB)	0.0217	0.0010	mg/Kg wet	0.0200		108		70-130			
Dibromomethane	0.0212	0.0020	mg/Kg wet	0.0200		106		70-130			
1,2-Dichlorobenzene	0.0214	0.0020	mg/Kg wet	0.0200		107		70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105		70-130			
1,4-Dichlorobenzene	0.0211	0.0020	mg/Kg wet	0.0200		106		70-130			
trans-1,4-Dichloro-2-butene	0.0188	0.0040	mg/Kg wet	0.0200		93.9		70-130			
Dichlorodifluoromethane (Freon 12)	0.0212	0.020	mg/Kg wet	0.0200		106		70-130			
1,1-Dichloroethane	0.0218	0.0020	mg/Kg wet	0.0200		109		70-130			
1,2-Dichloroethane	0.0229	0.0020	mg/Kg wet	0.0200		115		70-130			
1,1-Dichloroethylene	0.0199	0.0040	mg/Kg wet	0.0200		99.5		70-130			
cis-1,2-Dichloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		106		70-130			
trans-1,2-Dichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		102		70-130			
1,2-Dichloropropane	0.0207	0.0020	mg/Kg wet	0.0200		104		70-130			
1,3-Dichloropropane	0.0218	0.0010	mg/Kg wet	0.0200		109		70-130			
2,2-Dichloropropane	0.0177	0.0020	mg/Kg wet	0.0200		88.7		70-130			
1,1-Dichloropropene	0.0209	0.0020	mg/Kg wet	0.0200		105		70-130			
cis-1,3-Dichloropropene	0.0215	0.0010	mg/Kg wet	0.0200		107		70-130			
trans-1,3-Dichloropropene	0.0199	0.0010	mg/Kg wet	0.0200		99.6		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185582 - SW-846 5035										
LCS (B185582-BS1)				Prepared & Analyzed: 09/06/17						
Ethylbenzene	0.0220	0.0020	mg/Kg wet	0.0200		110	70-130			
Hexachlorobutadiene	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
2-Hexanone (MBK)	0.191	0.020	mg/Kg wet	0.200		95.7	70-130			
Isopropylbenzene (Cumene)	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
p-Isopropyltoluene (p-Cymene)	0.0205	0.0020	mg/Kg wet	0.0200		102	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0189	0.0040	mg/Kg wet	0.0200		94.4	70-130			
Methylene Chloride	0.0215	0.020	mg/Kg wet	0.0200		108	70-130			
4-Methyl-2-pentanone (MIBK)	0.213	0.020	mg/Kg wet	0.200		106	70-130			
Naphthalene	0.0165	0.0040	mg/Kg wet	0.0200		82.3	70-130			
n-Propylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
Styrene	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,1,1,2-Tetrachloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2,2-Tetrachloroethane	0.0216	0.0010	mg/Kg wet	0.0200		108	70-130			
Tetrachloroethylene	0.0228	0.0020	mg/Kg wet	0.0200		114	70-130			
Tetrahydrofuran	0.0201	0.010	mg/Kg wet	0.0200		101	70-130			
Toluene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2,3-Trichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.7	70-130			
1,2,4-Trichlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.1	70-130			
1,1,1-Trichloroethane	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
1,1,2-Trichloroethane	0.0233	0.0020	mg/Kg wet	0.0200		116	70-130			
Trichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
Trichlorofluoromethane (Freon 11)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,3-Trichloropropane	0.0225	0.0020	mg/Kg wet	0.0200		113	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0211	0.010	mg/Kg wet	0.0200		106	70-130			
1,2,4-Trimethylbenzene	0.0193	0.0020	mg/Kg wet	0.0200		96.3	70-130			
1,3,5-Trimethylbenzene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		94.1	70-130			
m+p Xylene	0.0427	0.0040	mg/Kg wet	0.0400		107	70-130			
o-Xylene	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0457*		mg/Kg wet	0.0500		91.4	70-130			
Surrogate: Toluene-d8	*0.0471*		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0486*		mg/Kg wet	0.0500		97.3	70-130			
Batch B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
Acetone	ND	10	µg/L							
Acrylonitrile	ND	2.0	µg/L							
Benzene	ND	0.50	µg/L							
Bromobenzene	ND	0.50	µg/L							
Bromodichloromethane	ND	0.50	µg/L							
Bromoform	ND	0.50	µg/L							
Bromomethane	ND	5.0	µg/L							
2-Butanone (MEK)	ND	5.0	µg/L							
n-Butylbenzene	ND	1.0	µg/L							
sec-Butylbenzene	ND	1.0	µg/L							
tert-Butylbenzene	ND	1.0	µg/L							
Carbon Disulfide	ND	5.0	µg/L							
Carbon Tetrachloride	ND	0.50	µg/L							
Chlorobenzene	ND	0.50	µg/L							
Chlorodibromomethane	ND	0.50	µg/L							
Chloroethane	ND	0.50	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B										
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17						
Chloroform	ND	0.50	µg/L							
Chloromethane	ND	0.60	µg/L							
2-Chlorotoluene	ND	0.50	µg/L							
4-Chlorotoluene	ND	0.50	µg/L							
1,2-Dibromo-3-chloropropane (DBCP)	ND	1.0	µg/L							
1,2-Dibromoethane (EDB)	ND	0.50	µg/L							
Dibromomethane	ND	0.50	µg/L							
1,2-Dichlorobenzene	ND	0.50	µg/L							
1,3-Dichlorobenzene	ND	0.50	µg/L							
1,4-Dichlorobenzene	ND	0.50	µg/L							
trans-1,4-Dichloro-2-butene	ND	2.0	µg/L							
Dichlorodifluoromethane (Freon 12)	ND	0.50	µg/L							
1,1-Dichloroethane	ND	0.50	µg/L							
1,2-Dichloroethane	ND	0.50	µg/L							
1,1-Dichloroethylene	ND	0.50	µg/L							
cis-1,2-Dichloroethylene	ND	0.50	µg/L							
trans-1,2-Dichloroethylene	ND	1.0	µg/L							
1,2-Dichloropropane	ND	0.50	µg/L							
1,3-Dichloropropane	ND	0.50	µg/L							
2,2-Dichloropropane	ND	0.50	µg/L							
1,1-Dichloropropene	ND	0.50	µg/L							
cis-1,3-Dichloropropene	ND	0.50	µg/L							
trans-1,3-Dichloropropene	ND	0.50	µg/L							
Ethylbenzene	ND	0.50	µg/L							
Hexachlorobutadiene	ND	0.60	µg/L							
2-Hexanone (MBK)	ND	5.0	µg/L							
Isopropylbenzene (Cumene)	ND	0.50	µg/L							
p-Isopropyltoluene (p-Cymene)	ND	0.50	µg/L							
Methyl tert-Butyl Ether (MTBE)	ND	0.50	µg/L							
Methylene Chloride	ND	5.0	µg/L							
4-Methyl-2-pentanone (MIBK)	ND	5.0	µg/L							
Naphthalene	ND	2.0	µg/L							
n-Propylbenzene	ND	1.0	µg/L							
Styrene	ND	1.0	µg/L							
1,1,1,2-Tetrachloroethane	ND	0.50	µg/L							
1,1,2,2-Tetrachloroethane	ND	0.50	µg/L							
Tetrachloroethylene	ND	1.0	µg/L							
Tetrahydrofuran	ND	10	µg/L							
Toluene	ND	1.0	µg/L							
1,2,3-Trichlorobenzene	ND	2.0	µg/L							
1,2,4-Trichlorobenzene	ND	1.0	µg/L							
1,1,1-Trichloroethane	ND	0.50	µg/L							
1,1,2-Trichloroethane	ND	0.50	µg/L							
Trichloroethylene	ND	1.0	µg/L							
Trichlorofluoromethane (Freon 11)	ND	2.0	µg/L							
1,2,3-Trichloropropane	ND	0.50	µg/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.50	µg/L							
1,2,4-Trimethylbenzene	ND	0.50	µg/L							
1,3,5-Trimethylbenzene	ND	0.50	µg/L							
Vinyl Chloride	ND	1.0	µg/L							
m+p Xylene	ND	2.0	µg/L							

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B											
Blank (B185788-BLK1)				Prepared & Analyzed: 09/08/17							
o-Xylene	ND	1.0	µg/L								
Surrogate: 1,2-Dichloroethane-d4	*29.6*		µg/L	25.0		118		70-130			
Surrogate: Toluene-d8	*25.6*		µg/L	25.0		103		70-130			
Surrogate: 4-Bromofluorobenzene	*25.2*		µg/L	25.0		101		70-130			
LCS (B185788-BS1)				Prepared & Analyzed: 09/08/17							
Acetone	86.8	10	µg/L	100		86.8		70-130			
Acrylonitrile	10.2	2.0	µg/L	10.0		102		70-130			
Benzene	11.0	0.50	µg/L	10.0		110		70-130			
Bromobenzene	10.3	0.50	µg/L	10.0		103		70-130			
Bromodichloromethane	11.6	0.50	µg/L	10.0		116		70-130			
Bromoform	9.84	0.50	µg/L	10.0		98.4		70-130			
Bromomethane	11.7	5.0	µg/L	10.0		117		70-130			
2-Butanone (MEK)	95.2	5.0	µg/L	100		95.2		70-130			
n-Butylbenzene	11.6	1.0	µg/L	10.0		116		70-130			
sec-Butylbenzene	11.0	1.0	µg/L	10.0		110		70-130			
tert-Butylbenzene	11.2	1.0	µg/L	10.0		112		70-130			
Carbon Disulfide	121	5.0	µg/L	100		121		70-130			
Carbon Tetrachloride	12.5	0.50	µg/L	10.0		125		70-130			
Chlorobenzene	10.2	0.50	µg/L	10.0		102		70-130			
Chlorodibromomethane	11.1	0.50	µg/L	10.0		111		70-130			
Chloroethane	9.80	0.50	µg/L	10.0		98.0		70-130			
Chloroform	11.6	0.50	µg/L	10.0		116		70-130			
Chloromethane	7.70	0.60	µg/L	10.0		77.0		70-130			
2-Chlorotoluene	10.9	0.50	µg/L	10.0		109		70-130			
4-Chlorotoluene	10.9	0.50	µg/L	10.0		109		70-130			
1,2-Dibromo-3-chloropropane (DBCP)	11.9	1.0	µg/L	10.0		119		70-130			
1,2-Dibromoethane (EDB)	10.6	0.50	µg/L	10.0		106		70-130			
Dibromomethane	11.1	0.50	µg/L	10.0		111		70-130			
1,2-Dichlorobenzene	10.1	0.50	µg/L	10.0		101		70-130			
1,3-Dichlorobenzene	10.3	0.50	µg/L	10.0		103		70-130			
1,4-Dichlorobenzene	10.0	0.50	µg/L	10.0		100		70-130			
trans-1,4-Dichloro-2-butene	10.0	2.0	µg/L	10.0		100		70-130			
Dichlorodifluoromethane (Freon 12)	11.9	0.50	µg/L	10.0		119		70-130			
1,1-Dichloroethane	10.8	0.50	µg/L	10.0		108		70-130			
1,2-Dichloroethane	11.9	0.50	µg/L	10.0		119		70-130			
1,1-Dichloroethylene	10.8	0.50	µg/L	10.0		108		70-130			
cis-1,2-Dichloroethylene	11.0	0.50	µg/L	10.0		110		70-130			
trans-1,2-Dichloroethylene	10.9	1.0	µg/L	10.0		109		70-130			
1,2-Dichloropropane	10.4	0.50	µg/L	10.0		104		70-130			
1,3-Dichloropropane	11.0	0.50	µg/L	10.0		110		70-130			
2,2-Dichloropropane	13.9	0.50	µg/L	10.0		**139**	*	70-130			L-01, V-20
1,1-Dichloropropene	11.8	0.50	µg/L	10.0		118		70-130			
cis-1,3-Dichloropropene	11.3	0.50	µg/L	10.0		113		70-130			
trans-1,3-Dichloropropene	11.7	0.50	µg/L	10.0		117		70-130			
Ethylbenzene	10.6	0.50	µg/L	10.0		106		70-130			
Hexachlorobutadiene	12.5	0.60	µg/L	10.0		125		70-130			
2-Hexanone (MBK)	99.6	5.0	µg/L	100		99.6		70-130			
Isopropylbenzene (Cumene)	10.4	0.50	µg/L	10.0		104		70-130			
p-Isopropyltoluene (p-Cymene)	11.3	0.50	µg/L	10.0		113		70-130			
Methyl tert-Butyl Ether (MTBE)	11.5	0.50	µg/L	10.0		115		70-130			
Methylene Chloride	9.44	5.0	µg/L	10.0		94.4		70-130			

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QUALITY CONTROL

Volatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185788 - SW-846 5030B										
LCS (B185788-BS1)				Prepared & Analyzed: 09/08/17						
4-Methyl-2-pentanone (MIBK)	98.9	5.0	µg/L	100		98.9	70-130			
Naphthalene	9.28	2.0	µg/L	10.0		92.8	70-130			
n-Propylbenzene	10.8	1.0	µg/L	10.0		108	70-130			
Styrene	10.4	1.0	µg/L	10.0		104	70-130			
1,1,1,2-Tetrachloroethane	10.1	0.50	µg/L	10.0		101	70-130			
1,1,2,2-Tetrachloroethane	10.3	0.50	µg/L	10.0		103	70-130			
Tetrachloroethylene	10.6	1.0	µg/L	10.0		106	70-130			
Tetrahydrofuran	8.44	10	µg/L	10.0		84.4	70-130			
Toluene	10.9	1.0	µg/L	10.0		109	70-130			
1,2,3-Trichlorobenzene	10.6	2.0	µg/L	10.0		106	70-130			
1,2,4-Trichlorobenzene	10.7	1.0	µg/L	10.0		107	70-130			
1,1,1-Trichloroethane	12.4	0.50	µg/L	10.0		124	70-130			
1,1,2-Trichloroethane	10.7	0.50	µg/L	10.0		107	70-130			
Trichloroethylene	11.5	1.0	µg/L	10.0		115	70-130			
Trichlorofluoromethane (Freon 11)	12.2	2.0	µg/L	10.0		122	70-130			
1,2,3-Trichloropropane	11.6	0.50	µg/L	10.0		116	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	11.2	0.50	µg/L	10.0		112	70-130			
1,2,4-Trimethylbenzene	10.9	0.50	µg/L	10.0		109	70-130			
1,3,5-Trimethylbenzene	10.5	0.50	µg/L	10.0		105	70-130			
Vinyl Chloride	9.03	1.0	µg/L	10.0		90.3	70-130			
m+p Xylene	21.6	2.0	µg/L	20.0		108	70-130			
o-Xylene	10.6	1.0	µg/L	10.0		106	70-130			
Surrogate: 1,2-Dichloroethane-d4	*28.8*		µg/L	25.0		115	70-130			
Surrogate: Toluene-d8	*26.1*		µg/L	25.0		104	70-130			
Surrogate: 4-Bromofluorobenzene	*25.3*		µg/L	25.0		101	70-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Aniline	ND	0.34	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Bis(2-chloroethoxy)methane	ND	0.34	mg/Kg wet							
Bis(2-chloroethyl)ether	ND	0.34	mg/Kg wet							
Bis(2-chloroisopropyl)ether	ND	0.34	mg/Kg wet							
Bis(2-Ethylhexyl)phthalate	ND	0.34	mg/Kg wet							
4-Bromophenylphenylether	ND	0.34	mg/Kg wet							
Butylbenzylphthalate	ND	0.34	mg/Kg wet							
Carbazole	ND	0.17	mg/Kg wet							
4-Chloroaniline	ND	0.66	mg/Kg wet							L-04
4-Chloro-3-methylphenol	ND	0.66	mg/Kg wet							
2-Chloronaphthalene	ND	0.34	mg/Kg wet							
2-Chlorophenol	ND	0.34	mg/Kg wet							
4-Chlorophenylphenylether	ND	0.34	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Dibenzofuran	ND	0.34	mg/Kg wet							
Di-n-butylphthalate	ND	0.34	mg/Kg wet							
3,3-Dichlorobenzidine	ND	0.17	mg/Kg wet							
2,4-Dichlorophenol	ND	0.34	mg/Kg wet							
Diethylphthalate	ND	0.34	mg/Kg wet							
2,4-Dimethylphenol	ND	0.34	mg/Kg wet							
Dimethylphthalate	ND	0.34	mg/Kg wet							
4,6-Dinitro-2-methylphenol	ND	0.34	mg/Kg wet							
2,4-Dinitrophenol	ND	0.66	mg/Kg wet							
2,4-Dinitrotoluene	ND	0.34	mg/Kg wet							
2,6-Dinitrotoluene	ND	0.34	mg/Kg wet							
Di-n-octylphthalate	ND	0.34	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Hexachlorobenzene	ND	0.34	mg/Kg wet							
Hexachlorobutadiene	ND	0.34	mg/Kg wet							
Hexachlorocyclopentadiene	ND	0.34	mg/Kg wet							V-05
Hexachloroethane	ND	0.34	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
Isophorone	ND	0.34	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
2-Methylphenol	ND	0.34	mg/Kg wet							
3/4-Methylphenol	ND	0.34	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
2-Nitroaniline	ND	0.34	mg/Kg wet							
3-Nitroaniline	ND	0.34	mg/Kg wet							
4-Nitroaniline	ND	0.34	mg/Kg wet							
Nitrobenzene	ND	0.34	mg/Kg wet							
2-Nitrophenol	ND	0.34	mg/Kg wet							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B185658 - SW-846 3546												
Blank (B185658-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17								
4-Nitrophenol	ND	0.66	mg/Kg wet									
N-Nitrosodiphenylamine	ND	0.34	mg/Kg wet									
N-Nitrosodi-n-propylamine	ND	0.34	mg/Kg wet									
Pentachloronitrobenzene	ND	0.34	mg/Kg wet								V-16	
Pentachlorophenol	ND	0.34	mg/Kg wet									
Phenanthrene	ND	0.17	mg/Kg wet									
Phenol	ND	0.34	mg/Kg wet									
Pyrene	ND	0.17	mg/Kg wet									
Pyridine	ND	0.34	mg/Kg wet									
1,2,4,5-Tetrachlorobenzene	ND	0.34	mg/Kg wet									
1,2,4-Trichlorobenzene	ND	0.34	mg/Kg wet									
2,4,5-Trichlorophenol	ND	0.34	mg/Kg wet									
2,4,6-Trichlorophenol	ND	0.34	mg/Kg wet									
Surrogate: 2-Fluorophenol	*4.34*		mg/Kg wet	6.67		65.2		30-130				
Surrogate: Phenol-d6	*4.66*		mg/Kg wet	6.67		69.9		30-130				
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.1		30-130				
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4		30-130				
Surrogate: 2,4,6-Tribromophenol	*7.14*		mg/Kg wet	6.67		107		30-130				
Surrogate: p-Terphenyl-d14	*3.28*		mg/Kg wet	3.33		98.5		30-130				
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17								
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.6		40-140				
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.0		40-140				
Aniline	0.727	0.34	mg/Kg wet	1.67		43.6		40-140				†
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9		40-140				
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		71.9		40-140				
Benzo(a)pyrene	1.18	0.17	mg/Kg wet	1.67		70.9		40-140				
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140				
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7		40-140				
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		68.0		40-140				
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.0		40-140				
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		64.8		40-140				
Bis(2-chloroisopropyl)ether	1.18	0.34	mg/Kg wet	1.67		70.9		40-140				
Bis(2-Ethylhexyl)phthalate	1.18	0.34	mg/Kg wet	1.67		71.0		40-140				
4-Bromophenylphenylether	1.34	0.34	mg/Kg wet	1.67		80.1		40-140				
Butylbenzylphthalate	1.23	0.34	mg/Kg wet	1.67		74.0		40-140				
Carbazole	1.11	0.17	mg/Kg wet	1.67		66.8		40-140				
4-Chloroaniline	0.586	0.66	mg/Kg wet	1.67		**35.2**	*	40-140			L-04	†
4-Chloro-3-methylphenol	1.25	0.66	mg/Kg wet	1.67		75.2		30-130				
2-Chloronaphthalene	1.13	0.34	mg/Kg wet	1.67		68.0		40-140				
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.3		30-130				
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.7		40-140				
Chrysene	1.12	0.17	mg/Kg wet	1.67		67.4		40-140				
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.5		40-140				
Dibenzofuran	1.18	0.34	mg/Kg wet	1.67		70.6		40-140				
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		68.9		40-140				
3,3-Dichlorobenzidine	1.19	0.17	mg/Kg wet	1.67		71.3		40-140				†
2,4-Dichlorophenol	1.26	0.34	mg/Kg wet	1.67		75.8		30-130				
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.7		40-140				
2,4-Dimethylphenol	1.22	0.34	mg/Kg wet	1.67		73.3		30-130				
Dimethylphthalate	1.26	0.34	mg/Kg wet	1.67		75.5		40-140				
4,6-Dinitro-2-methylphenol	0.841	0.34	mg/Kg wet	1.67		50.5		30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
LCS (B185658-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
2,4-Dinitrophenol	0.627	0.66	mg/Kg wet	1.67		37.6	30-130			
2,4-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.4	40-140			
2,6-Dinitrotoluene	1.33	0.34	mg/Kg wet	1.67		80.0	40-140			
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.3	40-140			
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140			
Hexachlorobenzene	1.43	0.34	mg/Kg wet	1.67		85.9	40-140			
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.5	40-140			
Hexachlorocyclopentadiene	0.821	0.34	mg/Kg wet	1.67		49.3	30-140			V-05
Hexachloroethane	1.06	0.34	mg/Kg wet	1.67		63.6	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
Isophorone	1.28	0.34	mg/Kg wet	1.67		76.8	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
2-Methylphenol	1.07	0.34	mg/Kg wet	1.67		64.3	30-130			
3/4-Methylphenol	1.17	0.34	mg/Kg wet	1.67		70.3	30-130			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
2-Nitroaniline	1.34	0.34	mg/Kg wet	1.67		80.6	40-140			
3-Nitroaniline	1.02	0.34	mg/Kg wet	1.67		61.1	40-140			†
4-Nitroaniline	1.20	0.34	mg/Kg wet	1.67		72.2	40-140			
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140			
2-Nitrophenol	1.14	0.34	mg/Kg wet	1.67		68.5	30-130			
4-Nitrophenol	1.66	0.66	mg/Kg wet	1.67		99.4	10-130			
N-Nitrosodiphenylamine	1.49	0.34	mg/Kg wet	1.67		89.4	40-140			
N-Nitrosodi-n-propylamine	1.21	0.34	mg/Kg wet	1.67		72.7	40-140			
Pentachloronitrobenzene	1.43	0.34	mg/Kg wet	1.67		85.7	40-140			V-16
Pentachlorophenol	1.00	0.34	mg/Kg wet	1.67		60.3	30-130			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Phenol	1.21	0.34	mg/Kg wet	1.67		72.6	20-130			
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
Pyridine	0.665	0.34	mg/Kg wet	1.67		39.9	10-140			†
1,2,4,5-Tetrachlorobenzene	1.16	0.34	mg/Kg wet	1.67		69.9	40-140			
1,2,4-Trichlorobenzene	1.21	0.34	mg/Kg wet	1.67		72.6	40-140			
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.1	30-130			
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.9	30-130			
Surrogate: 2-Fluorophenol	*5.00*		mg/Kg wet	6.67		75.1	30-130			
Surrogate: Phenol-d6	*5.23*		mg/Kg wet	6.67		78.4	30-130			
Surrogate: Nitrobenzene-d5	*2.56*		mg/Kg wet	3.33		76.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.61*		mg/Kg wet	3.33		78.4	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.30*		mg/Kg wet	6.67		110	30-130			
Surrogate: p-Terphenyl-d14	*2.92*		mg/Kg wet	3.33		87.5	30-130			
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Acenaphthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140	1.16	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.190	30	
Aniline	0.714	0.34	mg/Kg wet	1.67		42.8	40-140	1.90	50	† ‡
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	3.36	30	
Benzo(a)anthracene	1.17	0.17	mg/Kg wet	1.67		70.4	40-140	2.08	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	1.76	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	0.993	30	
Benzo(g,h,i)perylene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	0.0335	30	
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	0.352	30	
Bis(2-chloroethoxy)methane	1.25	0.34	mg/Kg wet	1.67		75.2	40-140	0.293	30	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes	
Batch B185658 - SW-846 3546												
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17								
Bis(2-chloroethyl)ether	1.14	0.34	mg/Kg wet	1.67		68.1		40-140	5.03	30		
Bis(2-chloroisopropyl)ether	1.21	0.34	mg/Kg wet	1.67		72.5		40-140	2.29	30		
Bis(2-Ethylhexyl)phthalate	1.19	0.34	mg/Kg wet	1.67		71.2		40-140	0.309	30		
4-Bromophenylphenylether	1.30	0.34	mg/Kg wet	1.67		78.3		40-140	2.35	30		
Butylbenzylphthalate	1.22	0.34	mg/Kg wet	1.67		73.0		40-140	1.31	30		
Carbazole	1.08	0.17	mg/Kg wet	1.67		64.6		40-140	3.41	30		
4-Chloroaniline	0.576	0.66	mg/Kg wet	1.67		**34.5**	*	40-140	1.84	30	L-04	†
4-Chloro-3-methylphenol	1.24	0.66	mg/Kg wet	1.67		74.5		30-130	0.935	30		
2-Chloronaphthalene	1.12	0.34	mg/Kg wet	1.67		67.3		40-140	1.00	30		
2-Chlorophenol	1.14	0.34	mg/Kg wet	1.67		68.4		30-130	0.117	30		
4-Chlorophenylphenylether	1.22	0.34	mg/Kg wet	1.67		73.0		40-140	5.02	30		
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140	1.35	30		
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg wet	1.67		65.1		40-140	7.36	30		
Dibenzofuran	1.17	0.34	mg/Kg wet	1.67		70.2		40-140	0.483	30		
Di-n-butylphthalate	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	0.203	30		
3,3-Dichlorobenzidine	1.27	0.17	mg/Kg wet	1.67		76.0		40-140	6.38	30		† ‡
2,4-Dichlorophenol	1.25	0.34	mg/Kg wet	1.67		75.2		30-130	0.742	30		
Diethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.4		40-140	0.456	30		
2,4-Dimethylphenol	1.19	0.34	mg/Kg wet	1.67		71.2		30-130	2.88	30		
Dimethylphthalate	1.23	0.34	mg/Kg wet	1.67		73.5		40-140	2.71	50		
4,6-Dinitro-2-methylphenol	0.802	0.34	mg/Kg wet	1.67		48.1		30-130	4.71	50		
2,4-Dinitrophenol	0.583	0.66	mg/Kg wet	1.67		35.0		30-130	7.22	50		
2,4-Dinitrotoluene	1.28	0.34	mg/Kg wet	1.67		77.0		40-140	3.07	30		
2,6-Dinitrotoluene	1.31	0.34	mg/Kg wet	1.67		78.9		40-140	1.36	30		
Di-n-octylphthalate	1.09	0.34	mg/Kg wet	1.67		65.5		40-140	0.275	30		
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.7		40-140	1.64	30		
Fluorene	1.11	0.17	mg/Kg wet	1.67		66.5		40-140	2.29	30		
Hexachlorobenzene	1.39	0.34	mg/Kg wet	1.67		83.4		40-140	2.91	30		
Hexachlorobutadiene	1.21	0.34	mg/Kg wet	1.67		72.4		40-140	1.25	30		
Hexachlorocyclopentadiene	0.828	0.34	mg/Kg wet	1.67		49.7		30-140	0.809	50	V-05	
Hexachloroethane	1.08	0.34	mg/Kg wet	1.67		64.9		40-140	1.99	50		
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6		40-140	0.384	50		
Isophorone	1.28	0.34	mg/Kg wet	1.67		77.1		40-140	0.390	30		
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6		40-140	1.83	30		
2-Methylphenol	1.10	0.34	mg/Kg wet	1.67		65.9		30-130	2.55	30		
3/4-Methylphenol	1.20	0.34	mg/Kg wet	1.67		71.8		30-130	2.17	30		
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3		40-140	1.35	30		
2-Nitroaniline	1.31	0.34	mg/Kg wet	1.67		78.5		40-140	2.59	30		
3-Nitroaniline	0.939	0.34	mg/Kg wet	1.67		56.4		40-140	8.01	30		†
4-Nitroaniline	1.15	0.34	mg/Kg wet	1.67		69.0		40-140	4.50	30		
Nitrobenzene	1.29	0.34	mg/Kg wet	1.67		77.2		40-140	0.336	30		
2-Nitrophenol	1.17	0.34	mg/Kg wet	1.67		70.4		30-130	2.62	30		
4-Nitrophenol	1.60	0.66	mg/Kg wet	1.67		96.0		10-130	3.44	50		‡
N-Nitrosodiphenylamine	1.44	0.34	mg/Kg wet	1.67		86.4		40-140	3.50	30		
N-Nitrosodi-n-propylamine	1.23	0.34	mg/Kg wet	1.67		74.0		40-140	1.85	30		
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.1		40-140	1.91	30	V-16	
Pentachlorophenol	0.967	0.34	mg/Kg wet	1.67		58.0		30-130	3.86	50		
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.0		40-140	3.81	30		
Phenol	1.21	0.34	mg/Kg wet	1.67		72.5		20-130	0.0827	30		
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.1		40-140	2.66	30		
Pyridine	0.657	0.34	mg/Kg wet	1.67		39.4		10-140	1.16	50		†
1,2,4,5-Tetrachlorobenzene	1.20	0.34	mg/Kg wet	1.67		71.9		40-140	2.88	30		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185658 - SW-846 3546										
LCS Dup (B185658-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
1,2,4-Trichlorobenzene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140	0.823	30	
2,4,5-Trichlorophenol	1.24	0.34	mg/Kg wet	1.67		74.4	30-130	0.323	30	
2,4,6-Trichlorophenol	1.20	0.34	mg/Kg wet	1.67		72.2	30-130	2.33	50	
Surrogate: 2-Fluorophenol	*5.14*		mg/Kg wet	6.67		77.1	30-130			
Surrogate: Phenol-d6	*5.30*		mg/Kg wet	6.67		79.5	30-130			
Surrogate: Nitrobenzene-d5	*2.67*		mg/Kg wet	3.33		80.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.67*		mg/Kg wet	3.33		80.0	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.25*		mg/Kg wet	6.67		109	30-130			
Surrogate: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		87.1	30-130			
Batch B185689 - SW-846 3510C										
Blank (B185689-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aniline	ND	5.0	µg/L							
Bis(2-chloroethoxy)methane	ND	10	µg/L							
Bis(2-chloroethyl)ether	ND	10	µg/L							
Bis(2-chloroisopropyl)ether	ND	10	µg/L							
Bis(2-Ethylhexyl)phthalate	ND	5.0	µg/L							
4-Bromophenylphenylether	ND	10	µg/L							
Butylbenzylphthalate	ND	10	µg/L							
Carbazole	ND	10	µg/L							
4-Chloroaniline	ND	10	µg/L							
4-Chloro-3-methylphenol	ND	10	µg/L							
2-Chloronaphthalene	ND	10	µg/L							
2-Chlorophenol	ND	10	µg/L							
4-Chlorophenylphenylether	ND	10	µg/L							
Dibenzofuran	ND	5.0	µg/L							
Di-n-butylphthalate	ND	10	µg/L							
3,3-Dichlorobenzidine	ND	10	µg/L							
2,4-Dichlorophenol	ND	10	µg/L							
Diethylphthalate	ND	10	µg/L							
2,4-Dimethylphenol	ND	10	µg/L							
Dimethylphthalate	ND	10	µg/L							
4,6-Dinitro-2-methylphenol	ND	10	µg/L							
2,4-Dinitrophenol	ND	10	µg/L							
2,4-Dinitrotoluene	ND	10	µg/L							
2,6-Dinitrotoluene	ND	10	µg/L							
Di-n-octylphthalate	ND	10	µg/L							
Hexachlorobenzene	ND	5.0	µg/L							
Hexachlorobutadiene	ND	10	µg/L							
Hexachlorocyclopentadiene	ND	10	µg/L							V-05
Hexachloroethane	ND	2.0	µg/L							
Isophorone	ND	10	µg/L							
2-Methylphenol	ND	10	µg/L							
3/4-Methylphenol	ND	10	µg/L							
2-Nitroaniline	ND	10	µg/L							
3-Nitroaniline	ND	10	µg/L							
4-Nitroaniline	ND	10	µg/L							
Nitrobenzene	ND	10	µg/L							
2-Nitrophenol	ND	10	µg/L							
4-Nitrophenol	ND	10	µg/L							
N-Nitrosodiphenylamine	ND	10	µg/L							
N-Nitrosodi-n-propylamine	ND	10	µg/L							

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185689 - SW-846 3510C											
Blank (B185689-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Pentachloronitrobenzene	ND	10	µg/L							V-16	
Pentachlorophenol	ND	5.0	µg/L								
Phenol	ND	10	µg/L								
Pyridine	ND	5.0	µg/L								
1,2,4,5-Tetrachlorobenzene	ND	10	µg/L								
1,2,4-Trichlorobenzene	ND	5.0	µg/L								
2,4,5-Trichlorophenol	ND	10	µg/L								
2,4,6-Trichlorophenol	ND	10	µg/L								
Surrogate: 2-Fluorophenol	*84.5*		µg/L	200		42.3	15-110				
Surrogate: Phenol-d6	*52.2*		µg/L	200		26.1	15-110				
Surrogate: Nitrobenzene-d5	*71.0*		µg/L	100		71.0	30-130				
Surrogate: 2-Fluorobiphenyl	*70.4*		µg/L	100		70.4	30-130				
Surrogate: 2,4,6-Tribromophenol	*161*		µg/L	200		80.7	15-110				
Surrogate: p-Terphenyl-d14	*87.1*		µg/L	100		87.1	30-130				
LCS (B185689-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Aniline	57.9	5.0	µg/L	100		57.9	40-140				†
Bis(2-chloroethoxy)methane	69.3	10	µg/L	100		69.3	40-140				
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140				
Bis(2-chloroisopropyl)ether	60.8	10	µg/L	100		60.8	40-140				
Bis(2-Ethylhexyl)phthalate	86.7	10	µg/L	100		86.7	40-140				
4-Bromophenylphenylether	74.9	10	µg/L	100		74.9	40-140				
Butylbenzylphthalate	80.6	10	µg/L	100		80.6	40-140				
Carbazole	72.6	10	µg/L	100		72.6	40-140				
4-Chloroaniline	71.6	10	µg/L	100		71.6	40-140				†
4-Chloro-3-methylphenol	74.0	10	µg/L	100		74.0	30-130				
2-Chloronaphthalene	58.8	10	µg/L	100		58.8	40-140				
2-Chlorophenol	61.9	10	µg/L	100		61.9	30-130				
4-Chlorophenylphenylether	71.4	10	µg/L	100		71.4	40-140				
Dibenzofuran	66.8	5.0	µg/L	100		66.8	40-140				
Di-n-butylphthalate	83.9	10	µg/L	100		83.9	40-140				
3,3-Dichlorobenzidine	118	10	µg/L	100		118	40-140				†
2,4-Dichlorophenol	70.3	10	µg/L	100		70.3	30-130				
Diethylphthalate	75.5	10	µg/L	100		75.5	40-140				
2,4-Dimethylphenol	76.5	10	µg/L	100		76.5	30-130				
Dimethylphthalate	71.1	10	µg/L	100		71.1	40-140				
4,6-Dinitro-2-methylphenol	66.0	10	µg/L	100		66.0	30-130				
2,4-Dinitrophenol	52.7	10	µg/L	100		52.7	30-130				
2,4-Dinitrotoluene	66.5	10	µg/L	100		66.5	40-140				
2,6-Dinitrotoluene	69.4	10	µg/L	100		69.4	40-140				
Di-n-octylphthalate	79.3	10	µg/L	100		79.3	40-140				
Hexachlorobenzene	71.4	10	µg/L	100		71.4	40-140				
Hexachlorobutadiene	80.0	10	µg/L	100		80.0	40-140				
Hexachlorocyclopentadiene	42.9	10	µg/L	100		42.9	30-140			V-05	
Hexachloroethane	67.8	10	µg/L	100		67.8	40-140				
Isophorone	71.9	10	µg/L	100		71.9	40-140				
2-Methylphenol	51.3	10	µg/L	100		51.3	30-130				
3/4-Methylphenol	52.7	10	µg/L	100		52.7	30-130				
2-Nitroaniline	72.9	10	µg/L	100		72.9	40-140				
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140				†
4-Nitroaniline	70.0	10	µg/L	100		70.0	40-140				
Nitrobenzene	68.8	10	µg/L	100		68.8	40-140				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185689 - SW-846 3510C											
LCS (B185689-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17							
2-Nitrophenol	69.3	10	µg/L	100		69.3	30-130				
4-Nitrophenol	37.7	10	µg/L	100		37.7	10-130				
N-Nitrosodiphenylamine	92.0	10	µg/L	100		92.0	40-140				
N-Nitrosodi-n-propylamine	66.6	10	µg/L	100		66.6	40-140				
Pentachloronitrobenzene	80.9	10	µg/L	100		80.9	40-140			V-16	
Pentachlorophenol	54.8	10	µg/L	100		54.8	30-130				
Phenol	27.5	10	µg/L	100		27.5	20-130				
Pyridine	25.4	5.0	µg/L	100		25.4	10-140				†
1,2,4,5-Tetrachlorobenzene	72.1	10	µg/L	100		72.1	40-140				
1,2,4-Trichlorobenzene	67.1	5.0	µg/L	100		67.1	40-140				
2,4,5-Trichlorophenol	65.6	10	µg/L	100		65.6	30-130				
2,4,6-Trichlorophenol	70.0	10	µg/L	100		70.0	30-130				
Surrogate: 2-Fluorophenol	*95.9*		µg/L	200		48.0	15-110				
Surrogate: Phenol-d6	*65.7*		µg/L	200		32.8	15-110				
Surrogate: Nitrobenzene-d5	*80.3*		µg/L	100		80.3	30-130				
Surrogate: 2-Fluorobiphenyl	*74.7*		µg/L	100		74.7	30-130				
Surrogate: 2,4,6-Tribromophenol	*163*		µg/L	200		81.6	15-110				
Surrogate: p-Terphenyl-d14	*80.2*		µg/L	100		80.2	30-130				
LCS Dup (B185689-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17							
Aniline	58.7	5.0	µg/L	100		58.7	40-140	1.42	50		† ‡
Bis(2-chloroethoxy)methane	68.3	10	µg/L	100		68.3	40-140	1.48	20		
Bis(2-chloroethyl)ether	67.5	10	µg/L	100		67.5	40-140	0.0296	20		
Bis(2-chloroisopropyl)ether	60.5	10	µg/L	100		60.5	40-140	0.429	20		
Bis(2-Ethylhexyl)phthalate	84.7	10	µg/L	100		84.7	40-140	2.30	20		
4-Bromophenylphenylether	73.2	10	µg/L	100		73.2	40-140	2.19	20		
Butylbenzylphthalate	78.8	10	µg/L	100		78.8	40-140	2.17	20		
Carbazole	70.4	10	µg/L	100		70.4	40-140	3.08	20		
4-Chloroaniline	73.1	10	µg/L	100		73.1	40-140	2.06	20		†
4-Chloro-3-methylphenol	72.8	10	µg/L	100		72.8	30-130	1.68	20		
2-Chloronaphthalene	59.2	10	µg/L	100		59.2	40-140	0.695	20		
2-Chlorophenol	59.5	10	µg/L	100		59.5	30-130	4.07	20		
4-Chlorophenylphenylether	69.3	10	µg/L	100		69.3	40-140	3.06	20		
Dibenzofuran	65.6	5.0	µg/L	100		65.6	40-140	1.81	20		
Di-n-butylphthalate	83.5	10	µg/L	100		83.5	40-140	0.394	20		
3,3-Dichlorobenzidine	114	10	µg/L	100		114	40-140	3.84	20		† ‡
2,4-Dichlorophenol	68.6	10	µg/L	100		68.6	30-130	2.39	20		
Diethylphthalate	76.1	10	µg/L	100		76.1	40-140	0.818	20		
2,4-Dimethylphenol	74.3	10	µg/L	100		74.3	30-130	2.82	20		
Dimethylphthalate	69.3	10	µg/L	100		69.3	40-140	2.55	50		
4,6-Dinitro-2-methylphenol	65.0	10	µg/L	100		65.0	30-130	1.50	50		
2,4-Dinitrophenol	51.3	10	µg/L	100		51.3	30-130	2.69	50		
2,4-Dinitrotoluene	65.2	10	µg/L	100		65.2	40-140	1.94	20		
2,6-Dinitrotoluene	68.0	10	µg/L	100		68.0	40-140	2.12	20		
Di-n-octylphthalate	78.0	10	µg/L	100		78.0	40-140	1.58	20		
Hexachlorobenzene	70.8	10	µg/L	100		70.8	40-140	0.774	20		
Hexachlorobutadiene	75.9	10	µg/L	100		75.9	40-140	5.28	20		
Hexachlorocyclopentadiene	39.5	10	µg/L	100		39.5	30-140	8.15	50	V-05	
Hexachloroethane	65.4	10	µg/L	100		65.4	40-140	3.48	50		
Isophorone	71.4	10	µg/L	100		71.4	40-140	0.726	20		
2-Methylphenol	49.9	10	µg/L	100		49.9	30-130	2.63	20		
3/4-Methylphenol	50.9	10	µg/L	100		50.9	30-130	3.55	20		

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B185689 - SW-846 3510C											
LCS Dup (B185689-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17							
2-Nitroaniline	72.3	10	µg/L	100		72.3	40-140	0.771	20		
3-Nitroaniline	64.6	10	µg/L	100		64.6	40-140	0.0310	20		†
4-Nitroaniline	69.5	10	µg/L	100		69.5	40-140	0.702	20		
Nitrobenzene	68.1	10	µg/L	100		68.1	40-140	0.950	20		
2-Nitrophenol	62.5	10	µg/L	100		62.5	30-130	10.3	20		
4-Nitrophenol	35.6	10	µg/L	100		35.6	10-130	5.81	50		‡
N-Nitrosodiphenylamine	91.1	10	µg/L	100		91.1	40-140	0.929	20		
N-Nitrosodi-n-propylamine	65.6	10	µg/L	100		65.6	40-140	1.39	20		
Pentachloronitrobenzene	78.5	10	µg/L	100		78.5	40-140	3.01	20	V-16	
Pentachlorophenol	50.6	10	µg/L	100		50.6	30-130	7.97	50		
Phenol	28.5	10	µg/L	100		28.5	20-130	3.46	20		
Pyridine	26.9	5.0	µg/L	100		26.9	10-140	5.85	50		†
1,2,4,5-Tetrachlorobenzene	69.0	10	µg/L	100		69.0	40-140	4.36	20		
1,2,4-Trichlorobenzene	65.3	5.0	µg/L	100		65.3	40-140	2.73	20		
2,4,5-Trichlorophenol	64.4	10	µg/L	100		64.4	30-130	1.86	20		
2,4,6-Trichlorophenol	67.4	10	µg/L	100		67.4	30-130	3.81	50		
Surrogate: 2-Fluorophenol	*90.3*		µg/L	200		45.1	15-110				
Surrogate: Phenol-d6	*60.6*		µg/L	200		30.3	15-110				
Surrogate: Nitrobenzene-d5	*78.6*		µg/L	100		78.6	30-130				
Surrogate: 2-Fluorobiphenyl	*70.5*		µg/L	100		70.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*156*		µg/L	200		77.8	15-110				
Surrogate: p-Terphenyl-d14	*77.5*		µg/L	100		77.5	30-130				
Batch B185949 - SW-846 3510C											
Blank (B185949-BLK1)				Prepared: 09/07/17 Analyzed: 09/11/17							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.30	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	ND	0.050	µg/L								
Benzo(a)pyrene (SIM)	ND	0.10	µg/L								
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L								
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L								
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L								
Chrysene (SIM)	ND	0.20	µg/L								
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L								
Fluoranthene (SIM)	ND	0.50	µg/L								
Fluorene (SIM)	ND	1.0	µg/L								
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L								
2-Methylnaphthalene (SIM)	ND	1.0	µg/L								
Naphthalene (SIM)	ND	1.0	µg/L								
Phenanthrene (SIM)	ND	0.050	µg/L								
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*80.4*		µg/L	100		80.4	30-130				
Surrogate: 2-Fluorobiphenyl	*79.4*		µg/L	100		79.4	30-130				
Surrogate: p-Terphenyl-d14	*67.6*		µg/L	100		67.6	30-130				

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185949 - SW-846 3510C										
LCS (B185949-BS1)				Prepared: 09/07/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	80.8	7.5	µg/L	100		80.8	40-140			
Acenaphthylene (SIM)	78.7	7.5	µg/L	100		78.7	40-140			
Anthracene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
Benzo(a)anthracene (SIM)	82.6	1.2	µg/L	100		82.6	40-140			
Benzo(a)pyrene (SIM)	90.1	2.5	µg/L	100		90.1	40-140			
Benzo(b)fluoranthene (SIM)	90.1	1.2	µg/L	100		90.1	40-140			
Benzo(g,h,i)perylene (SIM)	83.4	12	µg/L	100		83.4	40-140			
Benzo(k)fluoranthene (SIM)	86.8	5.0	µg/L	100		86.8	40-140			
Chrysene (SIM)	81.9	5.0	µg/L	100		81.9	40-140			
Dibenz(a,h)anthracene (SIM)	85.3	5.0	µg/L	100		85.3	40-140			
Fluoranthene (SIM)	85.0	12	µg/L	100		85.0	40-140			
Fluorene (SIM)	83.5	25	µg/L	100		83.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	84.8	5.0	µg/L	100		84.8	40-140			
2-Methylnaphthalene (SIM)	77.6	25	µg/L	100		77.6	40-140			
Naphthalene (SIM)	74.3	25	µg/L	100		74.3	40-140			
Phenanthrene (SIM)	81.7	1.2	µg/L	100		81.7	40-140			
Pyrene (SIM)	80.8	25	µg/L	100		80.8	40-140			
Surrogate: Nitrobenzene-d5	*87.8*		µg/L	100		87.8	30-130			
Surrogate: 2-Fluorobiphenyl	*91.0*		µg/L	100		91.0	30-130			
Surrogate: p-Terphenyl-d14	*77.4*		µg/L	100		77.4	30-130			
LCS Dup (B185949-BSD1)				Prepared: 09/07/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	85.0	7.5	µg/L	100		85.0	40-140	4.95	20	
Acenaphthylene (SIM)	82.4	7.5	µg/L	100		82.4	40-140	4.56	20	
Anthracene (SIM)	88.3	5.0	µg/L	100		88.3	40-140	4.02	20	
Benzo(a)anthracene (SIM)	86.1	1.2	µg/L	100		86.1	40-140	4.12	20	
Benzo(a)pyrene (SIM)	94.3	2.5	µg/L	100		94.3	40-140	4.50	20	
Benzo(b)fluoranthene (SIM)	93.6	1.2	µg/L	100		93.6	40-140	3.78	20	
Benzo(g,h,i)perylene (SIM)	88.5	12	µg/L	100		88.5	40-140	5.87	20	
Benzo(k)fluoranthene (SIM)	90.4	5.0	µg/L	100		90.4	40-140	4.01	20	
Chrysene (SIM)	86.0	5.0	µg/L	100		86.0	40-140	4.80	20	
Dibenz(a,h)anthracene (SIM)	90.9	5.0	µg/L	100		90.9	40-140	6.38	20	
Fluoranthene (SIM)	89.0	12	µg/L	100		89.0	40-140	4.62	20	
Fluorene (SIM)	87.9	25	µg/L	100		87.9	40-140	5.19	20	
Indeno(1,2,3-cd)pyrene (SIM)	90.3	5.0	µg/L	100		90.3	40-140	6.20	20	‡
2-Methylnaphthalene (SIM)	81.5	25	µg/L	100		81.5	40-140	4.93	20	
Naphthalene (SIM)	77.7	25	µg/L	100		77.7	40-140	4.54	20	
Phenanthrene (SIM)	84.3	1.2	µg/L	100		84.3	40-140	3.10	20	
Pyrene (SIM)	84.4	25	µg/L	100		84.4	40-140	4.30	20	
Surrogate: Nitrobenzene-d5	*85.6*		µg/L	100		85.6	30-130			
Surrogate: 2-Fluorobiphenyl	*89.8*		µg/L	100		89.8	30-130			
Surrogate: p-Terphenyl-d14	*71.8*		µg/L	100		71.8	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185770 - SW-846 3510C										
Blank (B185770-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	ND	0.10	µg/L							
Aroclor-1016 [2C]	ND	0.10	µg/L							
Aroclor-1221	ND	0.10	µg/L							
Aroclor-1221 [2C]	ND	0.10	µg/L							
Aroclor-1232	ND	0.10	µg/L							
Aroclor-1232 [2C]	ND	0.10	µg/L							
Aroclor-1242	ND	0.10	µg/L							
Aroclor-1242 [2C]	ND	0.10	µg/L							
Aroclor-1248	ND	0.10	µg/L							
Aroclor-1248 [2C]	ND	0.10	µg/L							
Aroclor-1254	ND	0.10	µg/L							
Aroclor-1254 [2C]	ND	0.10	µg/L							
Aroclor-1260	ND	0.10	µg/L							
Aroclor-1260 [2C]	ND	0.10	µg/L							
Aroclor-1262	ND	0.10	µg/L							
Aroclor-1262 [2C]	ND	0.10	µg/L							
Aroclor-1268	ND	0.10	µg/L							
Aroclor-1268 [2C]	ND	0.10	µg/L							
Surrogate: Decachlorobiphenyl	*2.07*		µg/L	2.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.21*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.86*		µg/L	2.00		93.0	30-150			
LCS (B185770-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	0.49	0.20	µg/L	0.500		97.3	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.49	0.20	µg/L	0.500		98.3	40-140			
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		95.4	40-140			
Surrogate: Decachlorobiphenyl	*1.95*		µg/L	2.00		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.09*		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.82*		µg/L	2.00		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.80*		µg/L	2.00		89.9	30-150			
LCS Dup (B185770-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		103	40-140	6.09	20	
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		111	40-140	2.48	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		99.5	40-140	1.25	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.8	40-140	1.49	20	
Surrogate: Decachlorobiphenyl	*2.03*		µg/L	2.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.20*		µg/L	2.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*1.91*		µg/L	2.00		95.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.89*		µg/L	2.00		94.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185858 - SW-846 3540C										
Blank (B185858-BLK1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		95.8	30-150			
LCS (B185858-BS1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.7	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.8	40-140			
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			
LCS Dup (B185858-BSD1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.2	40-140	2.73	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	2.79	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.0	40-140	1.51	30	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185858 - SW-846 3540C										
Matrix Spike (B185858-MS1)		**Source: 17H1675-01**		Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.24	0.087	mg/Kg dry	0.217	ND	109	40-140			
Aroclor-1016 [2C]	0.23	0.087	mg/Kg dry	0.217	ND	107	40-140			
Aroclor-1260	0.41	0.087	mg/Kg dry	0.217	0.16	116	40-140			
Aroclor-1260 [2C]	0.39	0.087	mg/Kg dry	0.217	0.17	103	40-140			
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.217		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg dry	0.217		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.207*		mg/Kg dry	0.217		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.217		98.0	30-150			
Matrix Spike Dup (B185858-MSD1)		**Source: 17H1675-01**		Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.24	0.088	mg/Kg dry	0.219	ND	109	40-140	0.804	50	
Aroclor-1016 [2C]	0.23	0.088	mg/Kg dry	0.219	ND	106	40-140	0.00359	50	
Aroclor-1260	0.38	0.088	mg/Kg dry	0.219	0.16	101	40-140	7.97	50	
Aroclor-1260 [2C]	0.37	0.088	mg/Kg dry	0.219	0.17	90.6	40-140	6.48	50	
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg dry	0.219		90.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.219		99.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg dry	0.219		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.219		94.6	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185690 - SW-846 3510C										
Blank (B185690-BLK1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0970*		mg/L	0.100		97.0	50-150			
LCS (B185690-BS1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.772	0.075	mg/L	1.00		77.2	60-120			
Surrogate: o-Terphenyl	*0.0991*		mg/L	0.100		99.1	50-150			
LCS Dup (B185690-BSD1)				Prepared: 09/07/17 Analyzed: 09/08/17						
CT ETPH	0.750	0.075	mg/L	1.00		75.0	60-120	2.84	30	
Surrogate: o-Terphenyl	*0.0956*		mg/L	0.100		95.6	50-150			
Batch B185980 - SW-846 3546										
Blank (B185980-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B185980-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	25.2	10	mg/Kg wet	33.3		75.5	60-120			
Surrogate: o-Terphenyl	*3.35*		mg/Kg wet	3.33		100	50-150			
LCS Dup (B185980-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
CT ETPH	23.7	10	mg/Kg wet	33.3		71.1	60-120	5.91	30	
Surrogate: o-Terphenyl	*3.16*		mg/Kg wet	3.33		94.7	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185607 - SW-846 7470A Prep										
Blank (B185607-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.00010	mg/L							
LCS (B185607-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00173	0.00010	mg/L	0.00200		86.4	80-120			
LCS Dup (B185607-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	0.00161	0.00010	mg/L	0.00200		80.6	80-120	6.90	20	
Batch B185635 - SW-846 7471										
Blank (B185635-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B185635-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.2	1.9	mg/Kg wet	9.36		109	73.7-126.3			
LCS Dup (B185635-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Mercury	10.3	1.9	mg/Kg wet	9.36		110	73.7-126.3	0.571	30	
Batch B185638 - SW-846 3050B										
Blank (B185638-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	ND	2.5	mg/Kg wet							
Arsenic	ND	2.5	mg/Kg wet							
Barium	ND	2.5	mg/Kg wet							
Beryllium	ND	0.25	mg/Kg wet							
Cadmium	ND	0.25	mg/Kg wet							
Chromium	ND	0.50	mg/Kg wet							
Copper	ND	0.50	mg/Kg wet							
Lead	ND	0.75	mg/Kg wet							
Nickel	ND	0.50	mg/Kg wet							
Selenium	ND	5.0	mg/Kg wet							
Silver	ND	0.50	mg/Kg wet							
Thallium	ND	2.5	mg/Kg wet							
Vanadium	ND	1.0	mg/Kg wet							
Zinc	ND	1.0	mg/Kg wet							
LCS (B185638-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	59.9	5.1	mg/Kg wet	146		41.0	0-210.3			
Arsenic	143	5.1	mg/Kg wet	157		90.9	77.8-122.1			
Barium	316	5.1	mg/Kg wet	339		93.3	82-117.4			
Beryllium	55.8	0.51	mg/Kg wet	58.3		95.8	82.3-117.7			
Cadmium	188	0.51	mg/Kg wet	216		86.9	81.9-118.2			
Chromium	84.5	1.0	mg/Kg wet	88.9		95.1	78.7-120.6			
Copper	183	1.0	mg/Kg wet	184		99.6	80.4-119.6			
Lead	91.0	1.5	mg/Kg wet	94.3		96.4	82.4-117.8			
Nickel	137	1.0	mg/Kg wet	154		88.8	82.2-117.8			
Selenium	186	10	mg/Kg wet	207		89.7	77.1-122.3			
Silver	41.4	1.0	mg/Kg wet	43.8		94.6	74.3-125.4			
Thallium	146	5.1	mg/Kg wet	167		87.6	78.2-121.6			
Vanadium	86.1	2.0	mg/Kg wet	100		86.1	64.8-135.2			
Zinc	188	2.0	mg/Kg wet	209		89.9	79.7-120.8			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185638 - SW-846 3050B										
LCS Dup (B185638-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Antimony	54.4	5.0	mg/Kg wet	146		37.2	0-210.3	9.75	30	
Arsenic	142	5.0	mg/Kg wet	157		90.5	77.8-122.1	0.506	30	
Barium	311	5.0	mg/Kg wet	339		91.7	82-117.4	1.65	30	
Beryllium	54.6	0.50	mg/Kg wet	58.3		93.6	82.3-117.7	2.24	30	
Cadmium	187	0.50	mg/Kg wet	216		86.4	81.9-118.2	0.524	30	
Chromium	82.9	1.0	mg/Kg wet	88.9		93.2	78.7-120.6	1.95	30	
Copper	178	1.0	mg/Kg wet	184		96.6	80.4-119.6	3.08	30	
Lead	90.7	1.5	mg/Kg wet	94.3		96.1	82.4-117.8	0.323	30	
Nickel	134	1.0	mg/Kg wet	154		87.1	82.2-117.8	1.92	30	
Selenium	188	10	mg/Kg wet	207		90.8	77.1-122.3	1.18	30	
Silver	40.8	1.0	mg/Kg wet	43.8		93.2	74.3-125.4	1.51	30	
Thallium	146	5.0	mg/Kg wet	167		87.7	78.2-121.6	0.122	30	
Vanadium	85.7	2.0	mg/Kg wet	100		85.7	64.8-135.2	0.423	30	
Zinc	185	2.0	mg/Kg wet	209		88.7	79.7-120.8	1.42	30	
MRL Check (B185638-MRL1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Lead	0.595	0.72	mg/Kg wet	0.719		82.8	80-120			
Batch B185847 - SW-846 3005A										
Blank (B185847-BLK1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	ND	5.0	µg/L							
Arsenic	ND	2.0	µg/L							
Barium	ND	50	µg/L							
Beryllium	ND	2.0	µg/L							
Cadmium	ND	2.5	µg/L							
Chromium	ND	5.0	µg/L							
Copper	ND	25	µg/L							
Lead	ND	5.0	µg/L							
Nickel	ND	25	µg/L							
Selenium	ND	25	µg/L							
Silver	ND	2.5	µg/L							
Thallium	ND	1.0	µg/L							
Vanadium	ND	25	µg/L							
Zinc	ND	50	µg/L							
LCS (B185847-BS1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	258	5.0	µg/L	250		103	80-120			
Arsenic	259	2.0	µg/L	250		104	80-120			
Barium	256	50	µg/L	250		102	80-120			
Beryllium	245	2.0	µg/L	250		97.8	80-120			
Cadmium	254	2.5	µg/L	250		102	80-120			
Chromium	254	5.0	µg/L	250		101	80-120			
Copper	257	25	µg/L	250		103	80-120			
Lead	245	5.0	µg/L	250		97.9	80-120			
Nickel	257	25	µg/L	250		103	80-120			
Selenium	253	25	µg/L	250		101	80-120			
Silver	268	2.5	µg/L	250		107	80-120			
Thallium	241	1.0	µg/L	250		96.3	80-120			
Vanadium	231	25	µg/L	250		92.5	80-120			
Zinc	260	50	µg/L	250		104	80-120			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185847 - SW-846 3005A										
LCS Dup (B185847-BSD1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Antimony	264	5.0	µg/L	250		106	80-120	2.24	20	
Arsenic	255	2.0	µg/L	250		102	80-120	1.54	20	
Barium	262	50	µg/L	250		105	80-120	2.25	20	
Beryllium	251	2.0	µg/L	250		100	80-120	2.57	20	
Cadmium	259	2.5	µg/L	250		104	80-120	1.88	20	
Chromium	253	5.0	µg/L	250		101	80-120	0.406	20	
Copper	256	25	µg/L	250		102	80-120	0.363	20	
Lead	250	5.0	µg/L	250		100	80-120	2.32	20	
Nickel	256	25	µg/L	250		102	80-120	0.302	20	
Selenium	251	25	µg/L	250		101	80-120	0.781	20	
Silver	275	2.5	µg/L	250		110	80-120	2.68	20	
Thallium	251	1.0	µg/L	250		100	80-120	4.04	20	
Vanadium	232	25	µg/L	250		92.7	80-120	0.207	20	
Zinc	259	50	µg/L	250		103	80-120	0.591	20	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B185578 - % Solids										
Duplicate (B185578-DUP4)		**Source: 17H1675-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.7		% Wt		91.4			1.41	20	
Duplicate (B185578-DUP5)		**Source: 17H1675-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	92.4		% Wt		91.9			0.543	20	
Duplicate (B185578-DUP6)		**Source: 17H1675-03**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	91.6		% Wt		89.7			2.10	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-33

Lab Sample ID: 17H1675-01 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-34

Lab Sample ID: 17H1675-02

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.24	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-35

Lab Sample ID: 17H1675-03

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.21	4.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-36

Lab Sample ID: 17H1675-04

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.60	
	2	0.000	-0.030	0.030	0.61	1.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-37

Lab Sample ID: 17H1675-05

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	6.2	
	2	0.000	-0.030	0.030	6.2	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-38

Lab Sample ID: 17H1675-06

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.32	3.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC13-SO-39

Lab Sample ID: 17H1675-07

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-17-0

Lab Sample ID: 17H1675-08

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.094	
	2	0.000	-0.030	0.030	0.096	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-SO-18-0

Lab Sample ID: 17H1675-09

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.85	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SO-3-0

Lab Sample ID: 17H1675-12 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.31	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC9-SO-45-0

Lab Sample ID: 17H1675-13

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.26	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC8-SE-25

Lab Sample ID: 17H1675-14

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.4	
	2	0.000	-0.030	0.030	2.4	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC10-SE-15

Lab Sample ID: 17H1675-15

Date(s) Analyzed: 09/14/2017 09/14/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	440	
	2	0.000	-0.030	0.030	430	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185770-BS1

Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.54	9.7
Aroclor-1260	1	0.000	0.000	0.000	0.49	
	2	0.000	0.000	0.000	0.48	2.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185770-BSD1 Date(s) Analyzed: 09/08/2017 09/08/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.55	5.6
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.48	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185858-BS1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185858-BSD1 Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B185858-MS1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.41	
	2	0.000	-0.030	0.030	0.39	5.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B185858-MSD1

Date(s) Analyzed: 09/13/2017 09/13/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.37	2.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
DL-04	Elevated reporting limit due to high concentration of an interfering analyte(s).
E	Reported result is estimated. Value reported over verified calibration range.
L-01	Laboratory fortified blank /laboratory control sample recovery outside of control limits. Data validation is not affected since all results are "not detected" for all samples in this batch for this compound and bias is on the high side.
L-04	Laboratory fortified blank/laboratory control sample recovery and duplicate recovery are outside of control limits. Reported value for this compound is likely to be biased on the low side.
RL-03	Elevated reporting limit based on lowest point in calibration. Requested reporting limit not met.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.
V-20	Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6010C-D in Soil	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 7471B in Soil	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8082A in Water	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8260C in Soil	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NH,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NH,NY,ME
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	CT,NH,NY,ME
sec-Butylbenzene	CT,NH,NY,ME
tert-Butylbenzene	CT,NH,NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	CT,NH,NY,ME
4-Chlorotoluene	CT,NH,NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NH,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NY
Dichlorodifluoromethane (Freon 12)	NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	CT,NH,NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NH,NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	CT,NH,NY,ME
p-Isopropyltoluene (p-Cymene)	NH,NY
Methyl tert-Butyl Ether (MTBE)	NH,NY
Methylene Chloride	CT,NH,NY,ME
4-Methyl-2-pentanone (MIBK)	CT,NH,NY
Naphthalene	NH,NY,ME
n-Propylbenzene	NH,NY
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,4-Trichlorobenzene	NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,2,4-Trimethylbenzene	CT,NH,NY,ME
1,3,5-Trimethylbenzene	CT,NH,NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	CT,NH,NY,ME

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
o-Xylene	CT,NH,NY,ME
SW-846 8260C in Water	
Acetone	CT,NH,NY,ME
Acrylonitrile	CT,NY,ME
Benzene	CT,NH,NY,ME
Bromobenzene	NY
Bromodichloromethane	CT,NH,NY,ME
Bromoform	CT,NH,NY,ME
Bromomethane	CT,NH,NY,ME
2-Butanone (MEK)	CT,NH,NY,ME
n-Butylbenzene	NY,ME
sec-Butylbenzene	NY,ME
tert-Butylbenzene	NY,ME
Carbon Disulfide	CT,NH,NY,ME
Carbon Tetrachloride	CT,NH,NY,ME
Chlorobenzene	CT,NH,NY,ME
Chlorodibromomethane	CT,NH,NY,ME
Chloroethane	CT,NH,NY,ME
Chloroform	CT,NH,NY,ME
Chloromethane	CT,NH,NY,ME
2-Chlorotoluene	NY,ME
4-Chlorotoluene	NY,ME
Dibromomethane	NH,NY,ME
1,2-Dichlorobenzene	CT,NY,ME
1,3-Dichlorobenzene	CT,NH,NY,ME
1,4-Dichlorobenzene	CT,NH,NY,ME
trans-1,4-Dichloro-2-butene	NH,NY,ME
Dichlorodifluoromethane (Freon 12)	NH,NY,ME
1,1-Dichloroethane	CT,NH,NY,ME
1,2-Dichloroethane	CT,NH,NY,ME
1,1-Dichloroethylene	CT,NH,NY,ME
cis-1,2-Dichloroethylene	NY,ME
trans-1,2-Dichloroethylene	CT,NH,NY,ME
1,2-Dichloropropane	CT,NH,NY,ME
1,3-Dichloropropane	NY,ME
2,2-Dichloropropane	NH,NY,ME
1,1-Dichloropropene	NH,NY,ME
cis-1,3-Dichloropropene	CT,NH,NY,ME
trans-1,3-Dichloropropene	CT,NH,NY,ME
Ethylbenzene	CT,NH,NY,ME
Hexachlorobutadiene	CT,NH,NY,ME
2-Hexanone (MBK)	CT,NH,NY,ME
Isopropylbenzene (Cumene)	NY,ME
p-Isopropyltoluene (p-Cymene)	CT,NH,NY,ME
Methyl tert-Butyl Ether (MTBE)	CT,NH,NY,ME
Methylene Chloride	CT,NH,NY,ME

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Water	
4-Methyl-2-pentanone (MIBK)	CT,NH,NY,ME
Naphthalene	NH,NY,ME
n-Propylbenzene	CT,NH,NY,ME
Styrene	CT,NH,NY,ME
1,1,1,2-Tetrachloroethane	CT,NH,NY,ME
1,1,2,2-Tetrachloroethane	CT,NH,NY,ME
Tetrachloroethylene	CT,NH,NY,ME
Toluene	CT,NH,NY,ME
1,2,3-Trichlorobenzene	NH,NY,ME
1,2,4-Trichlorobenzene	CT,NH,NY,ME
1,1,1-Trichloroethane	CT,NH,NY,ME
1,1,2-Trichloroethane	CT,NH,NY,ME
Trichloroethylene	CT,NH,NY,ME
Trichlorofluoromethane (Freon 11)	CT,NH,NY,ME
1,2,3-Trichloropropane	NH,NY,ME
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	NY
1,2,4-Trimethylbenzene	NY,ME
1,3,5-Trimethylbenzene	NY,ME
Vinyl Chloride	CT,NH,NY,ME
m+p Xylene	NH,NY,ME
o-Xylene	NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
1,2-Dichlorobenzene	NY,NH
1,3-Dichlorobenzene	NY,NH
1,4-Dichlorobenzene	NY,NH
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachloronitrobenzene	NY
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH
SW-846 8270D in Water	
Acenaphthene	CT,NY,NH
Acenaphthylene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Aniline	CT,NY
Anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(k)fluoranthene	CT,NY,NH
Bis(2-chloroethoxy)methane	CT,NY,NH
Bis(2-chloroethyl)ether	CT,NY,NH
Bis(2-chloroisopropyl)ether	CT,NY,NH
Bis(2-Ethylhexyl)phthalate	CT,NY,NH
4-Bromophenylphenylether	CT,NY,NH
Butylbenzylphthalate	CT,NY,NH
4-Chloroaniline	CT,NY,NH
4-Chloro-3-methylphenol	CT,NY,NH
2-Chloronaphthalene	CT,NY,NH
2-Chlorophenol	CT,NY,NH
4-Chlorophenylphenylether	CT,NY,NH
Chrysene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
1,2-Dichlorobenzene	NY
1,3-Dichlorobenzene	NY
1,4-Dichlorobenzene	NY
3,3-Dichlorobenzidine	CT,NY,NH
2,4-Dichlorophenol	CT,NY,NH
Diethylphthalate	CT,NY,NH
2,4-Dimethylphenol	CT,NY,NH
Dimethylphthalate	CT,NY,NH
4,6-Dinitro-2-methylphenol	CT,NY,NH
2,4-Dinitrophenol	CT,NY,NH
2,4-Dinitrotoluene	CT,NY,NH
2,6-Dinitrotoluene	CT,NY,NH
Di-n-octylphthalate	CT,NY,NH
Fluoranthene	CT,NY,NH
Fluorene	NY,NH
Hexachlorobenzene	CT,NY,NH
Hexachlorobutadiene	CT,NY,NH
Hexachlorocyclopentadiene	CT,NY,NH
Hexachloroethane	CT,NY,NH
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
2-Nitroaniline	CT,NY,NH
3-Nitroaniline	CT,NY,NH
4-Nitroaniline	CT,NY,NH
Nitrobenzene	CT,NY,NH
2-Nitrophenol	CT,NY,NH
4-Nitrophenol	CT,NY,NH
N-Nitrosodiphenylamine	CT,NY,NH
N-Nitrosodi-n-propylamine	CT,NY,NH
Pentachlorophenol	CT,NY,NH
Phenanthrene	CT,NY,NH
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyridine	CT,NY,NH
1,2,4,5-Tetrachlorobenzene	NY
1,2,4-Trichlorobenzene	CT,NY,NH
2,4,5-Trichlorophenol	CT,NY,NH
2,4,6-Trichlorophenol	CT,NY,NH

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17H1675

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 2

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rocky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (Soxhlet)
1	WS-AOC13-SO-33	8/31/17	1000		X	S	U	X
2	WS-AOC13-SO-34		1010					X
3	WS-AOC13-SO-35		1020					X
4	WS-AOC13-SO-36		1030					X
5	WS-AOC13-SO-37		1040					X
6	WS-AOC13-SO-38		1050					X
7	WS-AOC13-SO-39		1100					X
8	WS-AOC7-SO-17-0		1110					X
9	WS-AOC7-SO-18-0		1115					X
10	WS-AOC7-SO-19-0		1120					X

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 8/31/17	
Received by: (signature) [signature]	Date/Time: 8/31/17 1525
Relinquished by: (signature) [signature]	Date/Time: 9/1/17 950
Received by: (signature) [signature] 9/1/17	Date/Time: 3.6 9:50 4.3
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #
WG 9/1/17
NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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17H1675

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Doc # 381 Rev 0 5 8 2015

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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)	ETPH	SVOCs	RSR 15 metals	VOCs								# of Containers	[2] Preservation Code	[3] Container Code
																				1	I	A
11	WS-AOC7-SO-20-0	8/31/17	1130		X	S	U	X														
12	WS-AOC8-SO-3-0	↓	1140		↓	↓	↓	X														
13	WS-AOC9-SO-45-0	↓	1200		↓	↓	↓	X														
14	WS-AOC8-SE-25	↓	1230		↓	↓	↓	X	X	X	X	X										
15	WS-AOC10-SE-15	↓	1300		↓	↓	↓	X														
16	TRIP BLANK	↓	—		↓	↓	↓					X										
17	Equipment Blank-58	↓	0800		↓	W	↓	X	X	X	X	X										

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
8/31/17	
Received by: (signature)	Date/Time:
	8/31/17
Relinquished by: (signature)	Date/Time:
	9/1/17 950
Received by: (signature) S.6/4.3 9:50	Date/Time: 9/1/17
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

WG 9/1/17
NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By WCG Date 9/1/17 Time 9:50

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.6°C/4.3°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? N/A
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? T MS/MSD? N/A
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? T On COC? T
Do all samples have the proper pH? Acid T Base N/A

Vials	#	Containers:	#		#		#
Unp-	3	1 Liter Amb.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-	2	250 mL Amb.		250 mL Plastic	1	4oz Amb/Clear	14
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	4	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: WG 9/1/17	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A091217.SEC\A0912007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	579219	601921	-4
c - 10	1.62	584624	601921	-3
c - 12	2.35	601930	601921	0
c - 14	3.01	613611	601921	2
c - 16	3.61	626238	601921	4
c - 18	4.23	617049	601921	3
o-Terphenyl	4.51	684250	601921	
c - 20	4.83	622766	601921	3
c - 22	5.34	629203	601921	5
c - 24	5.77	583868	601921	-3
c - 26	6.16	611957	601921	2
c - 28	6.52	601941	601921	0
c - 30	6.85	596395	601921	-1
c - 32	7.16	582912	601921	-3
c - 34	7.46	587710	601921	-2
c - 36	7.77	589388	601921	-2

* One compound allowed %D <= 50%

Samples
17H1675-17

D:\HPCHEM\1\DATA\A091217.SEC\A0912039.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912039.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	603049	629027	-4
c - 10	1.62	609325	629027	-3
c - 12	2.35	625871	629027	-1
c - 14	3.01	638455	629027	1
c - 16	3.61	652226	629027	4
c - 18	4.23	642382	629027	2
o-Terphenyl	4.51	713285	629027	
c - 20	4.83	648093	629027	3
c - 22	5.34	655317	629027	4
c - 24	5.77	608772	629027	-3
c - 26	6.16	639161	629027	2
c - 28	6.52	629708	629027	0
c - 30	6.85	627878	629027	0
c - 32	7.16	615300	629027	-2
c - 34	7.45	619133	629027	-2
c - 36	7.77	620740	629027	-1

* One compound allowed %D <= 50%

Samples
17I0112-22
17I0112-23
17I0137-01
17H1672-11

D:\HPCHEM\1\DATA\A091217.SEC\A0912075.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/13/17
Data File Name	A0912075.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	644321	668772	-4
c - 10	1.63	652986	668772	-2
c - 12	2.35	670312	668772	0
c - 14	3.01	682330	668772	2
c - 16	3.61	695447	668772	4
c - 18	4.23	684583	668772	2
o-Terphenyl	4.51	758044	668772	
c - 20	4.83	689892	668772	3
c - 22	5.34	696936	668772	4
c - 24	5.77	646118	668772	-3
c - 26	6.16	678125	668772	1
c - 28	6.52	667022	668772	0
c - 30	6.85	664475	668772	-1
c - 32	7.16	650625	668772	-3
c - 34	7.45	653920	668772	-2
c - 36	7.77	654488	668772	-2

* One compound allowed %D <= 50%

Samples
17H1675-14
17I0196-01

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave., New Haven, CT

Project Number: 17H1675

Laboratory Sample ID(s):

17H1675-01 thru 17H1675-17

Sample Date(s):

08/31/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8260C, SW-846 8270D

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 CTDEP 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 and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
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 ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP 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
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 this 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: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **09/14/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

September 28, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17I0542

Enclosed are results of analyses for samples received by the laboratory on September 13, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 9/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0542

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC-13-SO-5-3R	17I0542-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-13-SO-6-1R	17I0542-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-9-3R	17I0542-03	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-13-SO-19-2R	17I0542-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-21-1R	17I0542-05	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC-13-SO-22-2R	17I0542-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-23-1R	17I0542-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-23-2R	17I0542-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-23-3R	17I0542-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-13-SO-25-4R	17I0542-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-2-3R	17I0542-11	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-07-SO-3-3R	17I0542-12	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-07-SO-4-3R	17I0542-13	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC-07-SO-7-2R	17I0542-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-7-3R	17I0542-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-8-1R	17I0542-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-07-SO-9-3R	17I0542-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC-07-SO-DUP62	17I0542-18	Soil		CTDEP ETPH	
				SM 2540G	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

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CTDEP ETPH

Qualifications:

L-07

Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.

Analyte & Samples(s) Qualified:

CT ETPH

B186922-BSD1

MS-08

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0542-11RE1[WS-AOC-07-SO-2-3R], B186922-MS1

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17I0542-11[WS-AOC-07-SO-2-3R], 17I0542-12[WS-AOC-07-SO-3-3R], 17I0542-13[WS-AOC-07-SO-4-3R], 17I0542-17[WS-AOC-07-SO-9-3R], 17I0542-18[WS-AOC-07-SO-DUP62]

SW-846 8082A

Qualifications:

P-01

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

Analyte & Samples(s) Qualified:

Aroclor-1254

17I0542-09[WS-AOC-13-SO-23-3R]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Decachlorobiphenyl [2C]

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Tetrachloro-m-xylene

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

Tetrachloro-m-xylene [2C]

17I0542-10[WS-AOC-13-SO-25-4R], 17I0542-15[WS-AOC-07-SO-7-3R]

SW-846 8270D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Benzo(a)anthracene (SIM)

17I0542-05[WS-AOC-13-SO-21-1R], B186838-BLK1, B186838-BS1, B186838-BSD1

Benzo(b)fluoranthene (SIM)

17I0542-05[WS-AOC-13-SO-21-1R], B186838-BLK1, B186838-BS1, B186838-BSD1

Naphthalene (SIM)

B186838-BLK1, B186838-BS1, B186838-BSD1

Phenanthrene (SIM)

17I0542-01[WS-AOC-13-SO-5-3R], 17I0542-03[WS-AOC-13-SO-9-3R], 17I0542-05[WS-AOC-13-SO-21-1R], 17I0542-17[WS-AOC-07-SO-9-3R], 17I0542-17RE1[WS-AOC-07-SO-9-3R], B186792-BLK1, B186792-BS1, B186792-BSD1, B186838-BLK1, B186838-BS1, B186838-BSD1

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B-07

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

Analyte & Samples(s) Qualified:

Phenanthrene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Acenaphthene
17I0542-17[WS-AOC-07-SO-9-3R]

Acenaphthene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R], 17I0542-17RE1[WS-AOC-07-SO-9-3R]

Anthracene
17I0542-17[WS-AOC-07-SO-9-3R]

Anthracene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

Benzo(a)anthracene
17I0542-17[WS-AOC-07-SO-9-3R]

Benzo(b)fluoranthene
17I0542-03[WS-AOC-13-SO-9-3R]

Chrysene
17I0542-17[WS-AOC-07-SO-9-3R]

Fluoranthene
17I0542-03[WS-AOC-13-SO-9-3R], 17I0542-17[WS-AOC-07-SO-9-3R]

Fluoranthene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

Fluorene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

Naphthalene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

Phenanthrene
17I0542-17[WS-AOC-07-SO-9-3R]

Phenanthrene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

Pyrene
17I0542-03[WS-AOC-13-SO-9-3R], 17I0542-17[WS-AOC-07-SO-9-3R]

Pyrene (SIM)
17I0542-17[WS-AOC-07-SO-9-3R]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0542-01RE1[WS-AOC-13-SO-5-3R]

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

2-Fluorobiphenyl
17I0542-17RE2[WS-AOC-07-SO-9-3R]

Nitrobenzene-d5
17I0542-17RE2[WS-AOC-07-SO-9-3R]

p-Terphenyl-d14
17I0542-17RE2[WS-AOC-07-SO-9-3R]

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R Sampled: 9/13/2017 12:17

Sample ID: 17I0542-01

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Acenaphthylene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(a)anthracene	2.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(a)pyrene	2.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(b)fluoranthene	3.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(g,h,i)perylene	2.4	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Benzo(k)fluoranthene	1.1	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Chrysene	2.2	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Dibenz(a,h)anthracene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Fluoranthene	3.8	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Fluorene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Indeno(1,2,3-cd)pyrene	1.8	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
2-Methylnaphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Naphthalene	ND	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Phenanthrene	1.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL
Pyrene	3.5	1.0	mg/Kg dry	5		SW-846 8270D	9/22/17	9/25/17 10:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.2	30-130		9/25/17 10:33
2-Fluorobiphenyl	56.3	30-130		9/25/17 10:33
p-Terphenyl-d14	58.2	30-130		9/25/17 10:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R Sampled: 9/13/2017 12:17

Sample ID: 17I0542-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-5-3R Sampled: 9/13/2017 12:17

Sample ID: 17I0542-01

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(a)anthracene (SIM)	0.071	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(b)fluoranthene (SIM)	0.075	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Phenanthrene (SIM)	0.21	0.050	µg/L	1	B	SW-846 8270D	9/21/17	9/22/17 17:02	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:02	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	71.8	30-130		9/22/17 17:02
2-Fluorobiphenyl	71.1	30-130		9/22/17 17:02
p-Terphenyl-d14	41.7	30-130		9/22/17 17:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R Sampled: 9/13/2017 12:26

Sample ID: 17I0542-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1260 [2]	0.16	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/24/17 12:39
Decachlorobiphenyl [2]	77.5	30-150		9/24/17 12:39
Tetrachloro-m-xylene [1]	80.4	30-150		9/24/17 12:39
Tetrachloro-m-xylene [2]	77.4	30-150		9/24/17 12:39

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R Sampled: 9/13/2017 12:26

Sample ID: 17I0542-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-6-1R Sampled: 9/13/2017 12:26

Sample ID: 17I0542-02

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.4	30-150		9/23/17 12:33
Decachlorobiphenyl [2]	78.5	30-150		9/23/17 12:33
Tetrachloro-m-xylene [1]	93.2	30-150		9/23/17 12:33
Tetrachloro-m-xylene [2]	92.7	30-150		9/23/17 12:33

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R Sampled: 9/13/2017 12:36

Sample ID: 17I0542-03

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Acenaphthene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Acenaphthylene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Anthracene	0.52	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(a)anthracene	4.5	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(a)anthracene	3.2	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(a)pyrene	4.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(a)pyrene	3.3	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(b)fluoranthene	5.1	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(b)fluoranthene	3.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(g,h,i)perylene	1.8	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(g,h,i)perylene	1.5	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Benzo(k)fluoranthene	2.0	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Benzo(k)fluoranthene	1.6	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Chrysene	4.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Chrysene	2.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Dibenz(a,h)anthracene	0.57	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Fluoranthene	9.2	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Fluoranthene	6.0	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Fluorene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Indeno(1,2,3-cd)pyrene	2.2	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Indeno(1,2,3-cd)pyrene	1.8	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Naphthalene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Naphthalene	ND	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Phenanthrene	2.5	0.21	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Phenanthrene	1.9	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL
Pyrene	8.8	0.21	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:59	BGL
Pyrene	5.7	0.85	mg/Kg dry	4		SW-846 8270D	9/20/17	9/21/17 16:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	50.2	30-130		9/21/17 13:59
Nitrobenzene-d5	40.4	30-130		9/21/17 16:06
2-Fluorobiphenyl	53.6	30-130		9/21/17 13:59
2-Fluorobiphenyl	41.4	30-130		9/21/17 16:06
p-Terphenyl-d14	56.4	30-130		9/21/17 13:59
p-Terphenyl-d14	39.3	30-130		9/21/17 16:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R Sampled: 9/13/2017 12:36

Sample ID: 17I0542-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-9-3R Sampled: 9/13/2017 12:36

Sample ID: 17I0542-03

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(a)anthracene (SIM)	0.18	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(a)pyrene (SIM)	0.18	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(b)fluoranthene (SIM)	0.24	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Chrysene (SIM)	0.20	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Phenanthrene (SIM)	0.26	0.050	µg/L	1	B	SW-846 8270D	9/21/17	9/22/17 17:31	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:31	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	59.3	30-130		9/22/17 17:31
2-Fluorobiphenyl	62.9	30-130		9/22/17 17:31
p-Terphenyl-d14	51.9	30-130		9/22/17 17:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R Sampled: 9/13/2017 12:46

Sample ID: 17I0542-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1260 [2]	0.61	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 12:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		9/24/17 12:57
Decachlorobiphenyl [2]	91.6	30-150		9/24/17 12:57
Tetrachloro-m-xylene [1]	90.8	30-150		9/24/17 12:57
Tetrachloro-m-xylene [2]	87.7	30-150		9/24/17 12:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R Sampled: 9/13/2017 12:46

Sample ID: 17I0542-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-19-2R Sampled: 9/13/2017 12:46

Sample ID: 17I0542-04

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1260 [1]	0.34	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 12:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		9/23/17 12:59
Decachlorobiphenyl [2]	105	30-150		9/23/17 12:59
Tetrachloro-m-xylene [1]	108	30-150		9/23/17 12:59
Tetrachloro-m-xylene [2]	107	30-150		9/23/17 12:59

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R Sampled: 9/13/2017 12:53

Sample ID: 17I0542-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(a)anthracene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(a)pyrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(b)fluoranthene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(g,h,i)perylene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Benzo(k)fluoranthene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Chrysene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Fluoranthene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Indeno(1,2,3-cd)pyrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL
Pyrene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 14:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	57.4	30-130		9/21/17 14:24
2-Fluorobiphenyl	69.9	30-130		9/21/17 14:24
p-Terphenyl-d14	80.1	30-130		9/21/17 14:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R Sampled: 9/13/2017 12:53

Sample ID: 17I0542-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-21-1R Sampled: 9/13/2017 12:53

Sample ID: 17I0542-05

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(a)anthracene (SIM)	0.082	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(a)pyrene (SIM)	0.14	0.10	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(b)fluoranthene (SIM)	0.22	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.21	0.20	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Phenanthrene (SIM)	0.10	0.050	µg/L	1	B	SW-846 8270D	9/22/17	9/25/17 21:00	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/22/17	9/25/17 21:00	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	95.2	30-130		9/25/17 21:00
2-Fluorobiphenyl	92.9	30-130		9/25/17 21:00
p-Terphenyl-d14	80.9	30-130		9/25/17 21:00

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R Sampled: 9/13/2017 13:03

Sample ID: 17I0542-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1254 [1]	0.79	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1260 [1]	2.0	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL
Aroclor-1268 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/25/17 13:24
Decachlorobiphenyl [2]	91.0	30-150		9/25/17 13:24
Tetrachloro-m-xylene [1]	99.3	30-150		9/25/17 13:24
Tetrachloro-m-xylene [2]	91.5	30-150		9/25/17 13:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R Sampled: 9/13/2017 13:03

Sample ID: 17I0542-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.9		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-22-2R Sampled: 9/13/2017 13:03

Sample ID: 17I0542-06

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1260 [2]	0.98	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.1	30-150		9/23/17 13:16
Decachlorobiphenyl [2]	49.1	30-150		9/23/17 13:16
Tetrachloro-m-xylene [1]	93.6	30-150		9/23/17 13:16
Tetrachloro-m-xylene [2]	93.4	30-150		9/23/17 13:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R Sampled: 9/13/2017 13:10

Sample ID: 17I0542-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1260 [2]	0.46	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		9/24/17 13:31
Decachlorobiphenyl [2]	92.9	30-150		9/24/17 13:31
Tetrachloro-m-xylene [1]	83.8	30-150		9/24/17 13:31
Tetrachloro-m-xylene [2]	81.1	30-150		9/24/17 13:31

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R Sampled: 9/13/2017 13:10

Sample ID: 17I0542-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-1R Sampled: 9/13/2017 13:10

Sample ID: 17I0542-07

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.8	30-150		9/23/17 13:34
Decachlorobiphenyl [2]	75.5	30-150		9/23/17 13:34
Tetrachloro-m-xylene [1]	94.4	30-150		9/23/17 13:34
Tetrachloro-m-xylene [2]	93.5	30-150		9/23/17 13:34

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R Sampled: 9/13/2017 13:11

Sample ID: 17I0542-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1260 [2]	0.84	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/20/17	9/24/17 13:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.0	30-150		9/24/17 13:48
Decachlorobiphenyl [2]	83.4	30-150		9/24/17 13:48
Tetrachloro-m-xylene [1]	73.5	30-150		9/24/17 13:48
Tetrachloro-m-xylene [2]	71.0	30-150		9/24/17 13:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R Sampled: 9/13/2017 13:11

Sample ID: 17I0542-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-2R Sampled: 9/13/2017 13:11

Sample ID: 17I0542-08

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 13:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.4	30-150		9/23/17 13:51
Decachlorobiphenyl [2]	61.6	30-150		9/23/17 13:51
Tetrachloro-m-xylene [1]	89.2	30-150		9/23/17 13:51
Tetrachloro-m-xylene [2]	88.3	30-150		9/23/17 13:51

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R Sampled: 9/13/2017 13:12

Sample ID: 17I0542-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1254 [1]	0.80	0.46	mg/Kg dry	20	P-01	SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1260 [2]	1.8	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 13:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.4	30-150		9/25/17 13:36
Decachlorobiphenyl [2]	97.1	30-150		9/25/17 13:36
Tetrachloro-m-xylene [1]	99.6	30-150		9/25/17 13:36
Tetrachloro-m-xylene [2]	92.8	30-150		9/25/17 13:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R Sampled: 9/13/2017 13:12

Sample ID: 17I0542-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-23-3R Sampled: 9/13/2017 13:12

Sample ID: 17I0542-09

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1260 [1]	0.41	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	47.8	30-150		9/23/17 14:08
Decachlorobiphenyl [2]	56.9	30-150		9/23/17 14:08
Tetrachloro-m-xylene [1]	86.1	30-150		9/23/17 14:08
Tetrachloro-m-xylene [2]	86.5	30-150		9/23/17 14:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R Sampled: 9/13/2017 13:32

Sample ID: 17I0542-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1221 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1232 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1242 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1248 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1254 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1260 [2]	49	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1262 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL
Aroclor-1268 [1]	ND	9.0	mg/Kg dry	400		SW-846 8082A	9/20/17	9/25/17 13:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/25/17 13:49
Decachlorobiphenyl [2]	*	30-150	S-01	9/25/17 13:49
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/25/17 13:49
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/25/17 13:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R Sampled: 9/13/2017 13:32

Sample ID: 17I0542-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.1		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-13-SO-25-4R Sampled: 9/13/2017 13:32

Sample ID: 17I0542-10

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1221 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1232 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1242 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1248 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1254 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1260 [1]	3.6	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1262 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB
Aroclor-1268 [1]	ND	1.0	µg/L	5		SW-846 8082A	9/21/17	9/24/17 6:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.1	30-150		9/24/17 6:53
Decachlorobiphenyl [2]	58.1	30-150		9/24/17 6:53
Tetrachloro-m-xylene [1]	93.2	30-150		9/24/17 6:53
Tetrachloro-m-xylene [2]	92.1	30-150		9/24/17 6:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R Sampled: 9/13/2017 14:20

Sample ID: 17I0542-11

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4300	1100	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 18:24	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/21/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R Sampled: 9/13/2017 14:20

Sample ID: 17I0542-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.3		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-2-3R Sampled: 9/13/2017 14:20

Sample ID: 17I0542-11

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.92	0.075	mg/L	1	MS-08	CTDEP ETPH	9/24/17	9/25/17 7:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	87.2	50-150		9/25/17 7:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R Sampled: 9/13/2017 14:00

Sample ID: 17I0542-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6700	1100	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/21/17 18:42	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/21/17 18:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R Sampled: 9/13/2017 14:00

Sample ID: 17I0542-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-3-3R Sampled: 9/13/2017 14:00

Sample ID: 17I0542-12

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4.7	0.38	mg/L	5		CTDEP ETPH	9/24/17	9/26/17 0:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	99.5	50-150		9/26/17 0:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R Sampled: 9/13/2017 14:37

Sample ID: 17I0542-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	230	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/22/17 20:02	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/22/17 20:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R Sampled: 9/13/2017 14:37

Sample ID: 17I0542-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-4-3R Sampled: 9/13/2017 14:37

Sample ID: 17I0542-13

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1.2	0.075	mg/L	1		CTDEP ETPH	9/24/17	9/25/17 7:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.7	50-150		9/25/17 7:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R Sampled: 9/13/2017 14:25

Sample ID: 17I0542-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1221 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1232 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1242 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1248 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1254 [1]	1.1	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1260 [2]	3.1	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1262 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL
Aroclor-1268 [1]	ND	0.43	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.1	30-150		9/25/17 14:01
Decachlorobiphenyl [2]	78.1	30-150		9/25/17 14:01
Tetrachloro-m-xylene [1]	73.5	30-150		9/25/17 14:01
Tetrachloro-m-xylene [2]	67.8	30-150		9/25/17 14:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R Sampled: 9/13/2017 14:25

Sample ID: 17I0542-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-2R Sampled: 9/13/2017 14:25

Sample ID: 17I0542-14

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 14:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		9/23/17 14:43
Decachlorobiphenyl [2]	80.3	30-150		9/23/17 14:43
Tetrachloro-m-xylene [1]	90.4	30-150		9/23/17 14:43
Tetrachloro-m-xylene [2]	89.9	30-150		9/23/17 14:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R Sampled: 9/13/2017 14:26

Sample ID: 17I0542-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1221 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1232 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1242 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1248 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1254 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1260 [1]	330	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1262 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL
Aroclor-1268 [1]	ND	45	mg/Kg dry	2000		SW-846 8082A	9/20/17	9/25/17 16:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/25/17 16:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/25/17 16:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/25/17 16:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/25/17 16:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R Sampled: 9/13/2017 14:26

Sample ID: 17I0542-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.9		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-7-3R Sampled: 9/13/2017 14:26

Sample ID: 17I0542-15

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1260 [2]	1.6	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/23/17 15:00
Decachlorobiphenyl [2]	102	30-150		9/23/17 15:00
Tetrachloro-m-xylene [1]	91.6	30-150		9/23/17 15:00
Tetrachloro-m-xylene [2]	91.4	30-150		9/23/17 15:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R Sampled: 9/13/2017 14:46

Sample ID: 17I0542-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1260 [2]	1.6	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	9/20/17	9/25/17 14:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		9/25/17 14:25
Decachlorobiphenyl [2]	99.9	30-150		9/25/17 14:25
Tetrachloro-m-xylene [1]	111	30-150		9/25/17 14:25
Tetrachloro-m-xylene [2]	103	30-150		9/25/17 14:25

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R Sampled: 9/13/2017 14:46

Sample ID: 17I0542-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.5		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-8-1R Sampled: 9/13/2017 14:46

Sample ID: 17I0542-16

Sample Matrix: Soil

SPLP - Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1260 [1]	0.27	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/21/17	9/23/17 15:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		9/23/17 15:17
Decachlorobiphenyl [2]	110	30-150		9/23/17 15:17
Tetrachloro-m-xylene [1]	95.0	30-150		9/23/17 15:17
Tetrachloro-m-xylene [2]	94.5	30-150		9/23/17 15:17

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R Sampled: 9/13/2017 14:53

Sample ID: 17I0542-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	25	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Acenaphthene	51	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Acenaphthylene	0.69	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Acenaphthylene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Anthracene	15	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Anthracene	18	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(a)anthracene	12	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(a)anthracene	10	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(a)pyrene	4.9	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(a)pyrene	5.1	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(b)fluoranthene	6.5	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(b)fluoranthene	6.5	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(g,h,i)perylene	2.0	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(g,h,i)perylene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Benzo(k)fluoranthene	2.3	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Benzo(k)fluoranthene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Chrysene	11	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Chrysene	9.0	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Dibenz(a,h)anthracene	0.52	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Dibenz(a,h)anthracene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Fluoranthene	35	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Fluoranthene	59	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Fluorene	3.0	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Fluorene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Indeno(1,2,3-cd)pyrene	2.1	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Indeno(1,2,3-cd)pyrene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
2-Methylnaphthalene	ND	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
2-Methylnaphthalene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Naphthalene	2.3	0.39	mg/Kg dry	1		SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Naphthalene	ND	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Phenanthrene	12	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Phenanthrene	13	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL
Pyrene	37	0.39	mg/Kg dry	1	E	SW-846 8270D	9/20/17	9/21/17 13:21	BGL
Pyrene	49	3.9	mg/Kg dry	10		SW-846 8270D	9/20/17	9/21/17 15:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	56.6	30-130		9/21/17 13:21
Nitrobenzene-d5	53.0	30-130		9/21/17 15:57
2-Fluorobiphenyl	54.5	30-130		9/21/17 13:21
2-Fluorobiphenyl	50.5	30-130		9/21/17 15:57
p-Terphenyl-d14	67.4	30-130		9/21/17 13:21
p-Terphenyl-d14	56.8	30-130		9/21/17 15:57

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R Sampled: 9/13/2017 14:53

Sample ID: 17I0542-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3000	460	mg/Kg dry	20		CTDEP ETPH	9/20/17	9/22/17 20:19	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/22/17 20:19

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R Sampled: 9/13/2017 14:53

Sample ID: 17I0542-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R Sampled: 9/13/2017 14:53

Sample ID: 17I0542-17

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene (SIM)	240	0.30	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Acenaphthene (SIM)	340	6.0	µg/L	20	E	SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Acenaphthene (SIM)	400	60	µg/L	200		SW-846 8270D	9/21/17	9/25/17 21:57	CJM
Acenaphthylene (SIM)	1.8	0.30	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Acenaphthylene (SIM)	ND	6.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Anthracene (SIM)	12	0.20	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Anthracene (SIM)	14	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(a)anthracene (SIM)	3.5	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(a)anthracene (SIM)	4.0	1.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(a)pyrene (SIM)	1.5	0.10	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(a)pyrene (SIM)	ND	2.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(b)fluoranthene (SIM)	2.1	0.050	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(b)fluoranthene (SIM)	2.5	1.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(g,h,i)perylene (SIM)	ND	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Benzo(k)fluoranthene (SIM)	0.69	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Benzo(k)fluoranthene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Chrysene (SIM)	2.3	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Chrysene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Dibenz(a,h)anthracene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Fluoranthene (SIM)	35	0.50	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Fluoranthene (SIM)	42	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Fluorene (SIM)	12	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Fluorene (SIM)	14	10	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Indeno(1,2,3-cd)pyrene (SIM)	0.46	0.20	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	4.0	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
2-Methylnaphthalene (SIM)	2.4	1.0	µg/L	1		SW-846 8270D	9/21/17	9/22/17 17:59	CJM
2-Methylnaphthalene (SIM)	ND	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Naphthalene (SIM)	39	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Naphthalene (SIM)	48	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Phenanthrene (SIM)	30	0.050	µg/L	1	B-07, E, B	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Phenanthrene (SIM)	37	1.0	µg/L	20	B	SW-846 8270D	9/21/17	9/25/17 21:28	CJM
Pyrene (SIM)	23	1.0	µg/L	1	E	SW-846 8270D	9/21/17	9/22/17 17:59	CJM
Pyrene (SIM)	27	20	µg/L	20		SW-846 8270D	9/21/17	9/25/17 21:28	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	68.2	30-130		9/22/17 17:59
Nitrobenzene-d5	82.9	30-130		9/25/17 21:28
Nitrobenzene-d5	*	30-130	S-01	9/25/17 21:57
2-Fluorobiphenyl	75.7	30-130		9/22/17 17:59
2-Fluorobiphenyl	93.0	30-130		9/25/17 21:28
2-Fluorobiphenyl	*	30-130	S-01	9/25/17 21:57
p-Terphenyl-d14	53.0	30-130		9/22/17 17:59
p-Terphenyl-d14	65.1	30-130		9/25/17 21:28
p-Terphenyl-d14	*	30-130	S-01	9/25/17 21:57

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-9-3R Sampled: 9/13/2017 14:53

Sample ID: 17I0542-17

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2.5	0.075	mg/L	1		CTDEP ETPH	9/24/17	9/25/17 8:13	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.6	50-150		9/25/17 8:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62 Sampled: 9/13/2017 00:00

Sample ID: 17I0542-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4400	1100	mg/Kg dry	100		CTDEP ETPH	9/20/17	9/22/17 20:37	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/22/17 20:37

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62 Sampled: 9/13/2017 00:00

Sample ID: 17I0542-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	9/15/17	9/15/17 20:48	CTL

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0542

Date Received: 9/13/2017

Field Sample #: WS-AOC-07-SO-DUP62 Sampled: 9/13/2017 00:00

Sample ID: 17I0542-18

Sample Matrix: Soil

SPLP - Semivolatile Organic Compounds by GC

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	4.4	0.38	mg/L	5		CTDEP ETPH	9/24/17	9/26/17 0:58	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	100	50-150		9/26/17 0:58

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-11 [WS-AOC-07-SO-2-3R]	B186685	30.0	5.00	09/20/17
17I0542-12 [WS-AOC-07-SO-3-3R]	B186685	30.2	5.00	09/20/17
17I0542-13 [WS-AOC-07-SO-4-3R]	B186685	30.0	1.00	09/20/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186685	15.1	1.00	09/20/17
17I0542-18 [WS-AOC-07-SO-DUP62]	B186685	30.2	1.00	09/20/17

Prep Method: SW-846 3510C-CTDEP ETPH **Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-11RE1 [WS-AOC-07-SO-2-3R]	B186922	1000	1.00	09/24/17
17I0542-12RE1 [WS-AOC-07-SO-3-3R]	B186922	1000	1.00	09/24/17
17I0542-13RE1 [WS-AOC-07-SO-4-3R]	B186922	1000	1.00	09/24/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186922	1000	1.00	09/24/17
17I0542-18RE1 [WS-AOC-07-SO-DUP62]	B186922	1000	1.00	09/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0542-01 [WS-AOC-13-SO-5-3R]	B186346	09/15/17
17I0542-02 [WS-AOC-13-SO-6-1R]	B186346	09/15/17
17I0542-03 [WS-AOC-13-SO-9-3R]	B186346	09/15/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186346	09/15/17
17I0542-05 [WS-AOC-13-SO-21-1R]	B186346	09/15/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186346	09/15/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186346	09/15/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186346	09/15/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186346	09/15/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186346	09/15/17
17I0542-11 [WS-AOC-07-SO-2-3R]	B186346	09/15/17
17I0542-12 [WS-AOC-07-SO-3-3R]	B186346	09/15/17
17I0542-13 [WS-AOC-07-SO-4-3R]	B186346	09/15/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186346	09/15/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186346	09/15/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186346	09/15/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186346	09/15/17
17I0542-18 [WS-AOC-07-SO-DUP62]	B186346	09/15/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-02 [WS-AOC-13-SO-6-1R]	B186678	10.1	10.0	09/20/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186678	10.3	10.0	09/20/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186678	10.1	10.0	09/20/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186678	10.2	10.0	09/20/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186678	10.1	10.0	09/20/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186678	10.2	10.0	09/20/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186678	10.2	10.0	09/20/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186678	10.3	10.0	09/20/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186678	10.3	10.0	09/20/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186678	10.1	10.0	09/20/17

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Sample Extraction Data

Prep Method: SW-846 3510C-SW-846 8082A **Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-02 [WS-AOC-13-SO-6-1R]	B186723	500	5.00	09/21/17
17I0542-04 [WS-AOC-13-SO-19-2R]	B186723	500	5.00	09/21/17
17I0542-06 [WS-AOC-13-SO-22-2R]	B186723	500	5.00	09/21/17
17I0542-07 [WS-AOC-13-SO-23-1R]	B186723	500	5.00	09/21/17
17I0542-08 [WS-AOC-13-SO-23-2R]	B186723	500	5.00	09/21/17
17I0542-09 [WS-AOC-13-SO-23-3R]	B186723	500	5.00	09/21/17
17I0542-10 [WS-AOC-13-SO-25-4R]	B186723	500	5.00	09/21/17
17I0542-14 [WS-AOC-07-SO-7-2R]	B186723	500	5.00	09/21/17
17I0542-15 [WS-AOC-07-SO-7-3R]	B186723	500	5.00	09/21/17
17I0542-16 [WS-AOC-07-SO-8-1R]	B186723	500	5.00	09/21/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-03 [WS-AOC-13-SO-9-3R]	B186627	30.5	1.00	09/20/17
17I0542-03RE1 [WS-AOC-13-SO-9-3R]	B186627	30.5	1.00	09/20/17
17I0542-05 [WS-AOC-13-SO-21-1R]	B186627	30.2	1.00	09/20/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186627	15.3	1.00	09/20/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186627	15.3	1.00	09/20/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0542-01RE1 [WS-AOC-13-SO-5-3R]	B186870	30.1	1.00	09/22/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-01 [WS-AOC-13-SO-5-3R]	B186792	1000	1.00	09/21/17
17I0542-03 [WS-AOC-13-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17RE1 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17
17I0542-17RE2 [WS-AOC-07-SO-9-3R]	B186792	1000	1.00	09/21/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 9/15/2017 per SW-846 1312 in Batch B186358**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0542-05 [WS-AOC-13-SO-21-1R]	B186838	500	0.500	09/22/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
Blank (B186627-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.30*		mg/Kg wet	3.33		69.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B186627-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140			
Benzo(a)pyrene	1.04	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(b)fluoranthene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Benzo(k)fluoranthene	0.979	0.17	mg/Kg wet	1.67		58.7	40-140			
Chrysene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140			
Dibenz(a,h)anthracene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140			
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg wet	1.67		66.3	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Phenanthrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140			
Pyrene	0.980	0.17	mg/Kg wet	1.67		58.8	40-140			
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.8	30-130			
Surrogate: p-Terphenyl-d14	*2.21*		mg/Kg wet	3.33		66.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186627 - SW-846 3546										
LCS Dup (B186627-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	0.350	30	
Acenaphthylene	0.996	0.17	mg/Kg wet	1.67		59.7	40-140	0.900	30	
Anthracene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140	3.64	30	
Benzo(a)anthracene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.92	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140	5.08	30	
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140	5.23	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	5.90	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	6.43	30	
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.06	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	8.39	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	4.10	30	
Fluorene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	0.860	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		71.1	40-140	6.87	30	
2-Methylnaphthalene	1.05	0.17	mg/Kg wet	1.67		63.3	40-140	4.36	30	
Naphthalene	0.974	0.17	mg/Kg wet	1.67		58.4	40-140	3.33	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	4.34	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.2	40-140	5.68	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg wet	3.33		69.3	30-130			
Surrogate: p-Terphenyl-d14	*2.27*		mg/Kg wet	3.33		68.0	30-130			
Batch B186870 - SW-846 3546										
Blank (B186870-BLK1)				Prepared: 09/22/17 Analyzed: 09/25/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.18*		mg/Kg wet	3.33		65.5	30-130			
Surrogate: p-Terphenyl-d14	*2.64*		mg/Kg wet	3.33		79.1	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186870 - SW-846 3546										
LCS (B186870-BS1)				Prepared: 09/22/17 Analyzed: 09/25/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140			
Anthracene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(a)anthracene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(k)fluoranthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		74.9	40-140			
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Fluorene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140			
Indeno(1,2,3-cd)pyrene	1.29	0.17	mg/Kg wet	1.67		77.7	40-140			
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Pyrene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Surrogate: Nitrobenzene-d5	*2.69*		mg/Kg wet	3.33		80.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.0	30-130			
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.33		75.4	30-130			
LCS Dup (B186870-BSD1)				Prepared: 09/22/17 Analyzed: 09/25/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	0.765	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.256	30	
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	2.04	30	
Benzo(a)anthracene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	1.13	30	
Benzo(a)pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	0.237	30	
Benzo(b)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	3.47	30	
Benzo(g,h,i)perylene	1.22	0.17	mg/Kg wet	1.67		73.3	40-140	4.37	30	
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140	2.91	30	
Chrysene	1.09	0.17	mg/Kg wet	1.67		65.2	40-140	3.59	30	
Dibenz(a,h)anthracene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	3.62	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.7	40-140	0.216	30	
Fluorene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.36	30	
Indeno(1,2,3-cd)pyrene	1.23	0.17	mg/Kg wet	1.67		74.0	40-140	4.83	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	0.411	30	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	1.64	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	1.00	30	
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.1	40-140	4.26	30	
Surrogate: Nitrobenzene-d5	*2.58*		mg/Kg wet	3.33		77.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186678 - SW-846 3540C										
Blank (B186678-BLK1)				Prepared: 09/20/17 Analyzed: 09/24/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.219*		mg/Kg wet	0.200		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.5	30-150			
LCS (B186678-BS1)				Prepared: 09/20/17 Analyzed: 09/24/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg wet	0.200		92.5	30-150			
LCS Dup (B186678-BSD1)				Prepared: 09/20/17 Analyzed: 09/24/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.3	40-140	3.27	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	0.0438	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	0.675	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.9	40-140	0.467	30	
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186678 - SW-846 3540C										
Matrix Spike (B186678-MS1)		**Source: 17I0542-02**		Prepared: 09/20/17 Analyzed: 09/25/17						
Aroclor-1016	0.18	0.085	mg/Kg dry	0.212	ND	84.2	40-140			
Aroclor-1016 [2C]	0.20	0.085	mg/Kg dry	0.212	ND	94.4	40-140			
Aroclor-1260	0.29	0.085	mg/Kg dry	0.212	0.15	65.4	40-140			
Aroclor-1260 [2C]	0.31	0.085	mg/Kg dry	0.212	0.16	70.4	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg dry	0.212		74.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg dry	0.212		96.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg dry	0.212		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg dry	0.212		90.0	30-150			
Matrix Spike Dup (B186678-MSD1)		**Source: 17I0542-02**		Prepared: 09/20/17 Analyzed: 09/25/17						
Aroclor-1016	0.16	0.084	mg/Kg dry	0.210	ND	73.9	40-140	14.0	50	
Aroclor-1016 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	80.0	40-140	17.6	50	
Aroclor-1260	0.25	0.084	mg/Kg dry	0.210	0.15	46.0	40-140	15.7	50	
Aroclor-1260 [2C]	0.27	0.084	mg/Kg dry	0.210	0.16	52.9	40-140	13.2	50	
Surrogate: Decachlorobiphenyl	*0.125*		mg/Kg dry	0.210		59.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.210		81.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg dry	0.210		77.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg dry	0.210		77.0	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186685 - SW-846 3546										
Blank (B186685-BLK1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8	50-150			
LCS (B186685-BS1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	23.9	10	mg/Kg wet	33.3		71.7	60-120			
Surrogate: o-Terphenyl	*2.60*		mg/Kg wet	3.33		77.9	50-150			
LCS Dup (B186685-BSD1)				Prepared: 09/20/17 Analyzed: 09/21/17						
CT ETPH	25.1	10	mg/Kg wet	33.3		75.2	60-120	4.79	30	
Surrogate: o-Terphenyl	*2.74*		mg/Kg wet	3.33		82.3	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186346 - % Solids										
Duplicate (B186346-DUP3)		**Source: 17I0542-01**		Prepared & Analyzed: 09/15/17						
% Solids	86.0		% Wt		84.8			1.41	20	
Duplicate (B186346-DUP4)		**Source: 17I0542-02**		Prepared & Analyzed: 09/15/17						
% Solids	93.7		% Wt		93.2			0.535	20	

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186792 - SW-846 3510C										
Blank (B186792-BLK1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene (SIM)	ND	0.30	µg/L							
Acenaphthylene (SIM)	ND	0.30	µg/L							
Anthracene (SIM)	ND	0.20	µg/L							
Benzo(a)anthracene (SIM)	ND	0.050	µg/L							
Benzo(a)pyrene (SIM)	ND	0.10	µg/L							
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L							
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L							
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L							
Chrysene (SIM)	ND	0.20	µg/L							
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L							
Fluoranthene (SIM)	ND	0.50	µg/L							
Fluorene (SIM)	ND	1.0	µg/L							
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L							
2-Methylnaphthalene (SIM)	ND	1.0	µg/L							
Naphthalene (SIM)	ND	1.0	µg/L							
Phenanthrene (SIM)	0.060	0.050	µg/L							B
Pyrene (SIM)	ND	1.0	µg/L							
Surrogate: Nitrobenzene-d5	*72.6*		µg/L	100		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*74.8*		µg/L	100		74.8	30-130			
Surrogate: p-Terphenyl-d14	*64.3*		µg/L	100		64.3	30-130			
LCS (B186792-BS1)				Prepared: 09/21/17 Analyzed: 09/22/17						
Acenaphthene (SIM)	37.9	7.5	µg/L	50.0		75.8	40-140			
Acenaphthylene (SIM)	37.0	7.5	µg/L	50.0		73.9	40-140			
Anthracene (SIM)	40.3	5.0	µg/L	50.0		80.6	40-140			
Benzo(a)anthracene (SIM)	40.9	1.2	µg/L	50.0		81.8	40-140			
Benzo(a)pyrene (SIM)	42.5	2.5	µg/L	50.0		85.0	40-140			
Benzo(b)fluoranthene (SIM)	43.5	1.2	µg/L	50.0		87.0	40-140			
Benzo(g,h,i)perylene (SIM)	39.4	12	µg/L	50.0		78.7	40-140			
Benzo(k)fluoranthene (SIM)	42.4	5.0	µg/L	50.0		84.8	40-140			
Chrysene (SIM)	41.1	5.0	µg/L	50.0		82.2	40-140			
Dibenz(a,h)anthracene (SIM)	40.7	5.0	µg/L	50.0		81.4	40-140			
Fluoranthene (SIM)	39.3	12	µg/L	50.0		78.6	40-140			
Fluorene (SIM)	38.7	25	µg/L	50.0		77.4	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	39.9	5.0	µg/L	50.0		79.8	40-140			
2-Methylnaphthalene (SIM)	35.9	25	µg/L	50.0		71.8	40-140			
Naphthalene (SIM)	35.2	25	µg/L	50.0		70.4	40-140			
Phenanthrene (SIM)	39.3	1.2	µg/L	50.0		78.6	40-140			B
Pyrene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Surrogate: Nitrobenzene-d5	*79.7*		µg/L	100		79.7	30-130			
Surrogate: 2-Fluorobiphenyl	*86.6*		µg/L	100		86.6	30-130			
Surrogate: p-Terphenyl-d14	*72.9*		µg/L	100		72.9	30-130			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B186792 - SW-846 3510C											
LCS Dup (B186792-BSD1)				Prepared: 09/21/17 Analyzed: 09/22/17							
Acenaphthene (SIM)	37.2	7.5	µg/L	50.0		74.4	40-140	1.86	20		
Acenaphthylene (SIM)	36.2	7.5	µg/L	50.0		72.4	40-140	2.05	20		
Anthracene (SIM)	39.7	5.0	µg/L	50.0		79.4	40-140	1.56	20		
Benzo(a)anthracene (SIM)	39.6	1.2	µg/L	50.0		79.3	40-140	3.10	20		
Benzo(a)pyrene (SIM)	41.3	2.5	µg/L	50.0		82.6	40-140	2.80	20		
Benzo(b)fluoranthene (SIM)	42.6	1.2	µg/L	50.0		85.2	40-140	2.15	20		
Benzo(g,h,i)perylene (SIM)	38.3	12	µg/L	50.0		76.6	40-140	2.64	20		
Benzo(k)fluoranthene (SIM)	41.3	5.0	µg/L	50.0		82.6	40-140	2.63	20		
Chrysene (SIM)	40.0	5.0	µg/L	50.0		80.0	40-140	2.77	20		
Dibenz(a,h)anthracene (SIM)	39.1	5.0	µg/L	50.0		78.2	40-140	4.01	20		
Fluoranthene (SIM)	38.7	12	µg/L	50.0		77.4	40-140	1.60	20		
Fluorene (SIM)	37.7	25	µg/L	50.0		75.4	40-140	2.75	20		
Indeno(1,2,3-cd)pyrene (SIM)	38.6	5.0	µg/L	50.0		77.2	40-140	3.38	20		‡
2-Methylnaphthalene (SIM)	35.2	25	µg/L	50.0		70.3	40-140	2.18	20		
Naphthalene (SIM)	35.6	25	µg/L	50.0		71.2	40-140	1.27	20		
Phenanthrene (SIM)	38.3	1.2	µg/L	50.0		76.6	40-140	2.58	20	B	
Pyrene (SIM)	39.6	25	µg/L	50.0		79.2	40-140	4.92	20		
Surrogate: Nitrobenzene-d5	*82.5*		µg/L	100		82.5	30-130				
Surrogate: 2-Fluorobiphenyl	*90.8*		µg/L	100		90.8	30-130				
Surrogate: p-Terphenyl-d14	*68.7*		µg/L	100		68.7	30-130				
Batch B186838 - SW-846 3510C											
Blank (B186838-BLK1)				Prepared: 09/22/17 Analyzed: 09/25/17							
Acenaphthene (SIM)	ND	0.30	µg/L								
Acenaphthylene (SIM)	ND	0.30	µg/L								
Anthracene (SIM)	ND	0.20	µg/L								
Benzo(a)anthracene (SIM)	0.061	0.050	µg/L							B	
Benzo(a)pyrene (SIM)	ND	0.10	µg/L								
Benzo(b)fluoranthene (SIM)	0.076	0.050	µg/L							B	
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L								
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L								
Chrysene (SIM)	ND	0.20	µg/L								
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L								
Fluoranthene (SIM)	ND	0.50	µg/L								
Fluorene (SIM)	ND	1.0	µg/L								
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L								
2-Methylnaphthalene (SIM)	ND	1.0	µg/L								
Naphthalene (SIM)	1.2	1.0	µg/L							B	
Phenanthrene (SIM)	0.051	0.050	µg/L							B	
Pyrene (SIM)	ND	1.0	µg/L								
Surrogate: Nitrobenzene-d5	*91.0*		µg/L	100		91.0	30-130				
Surrogate: 2-Fluorobiphenyl	*91.1*		µg/L	100		91.1	30-130				
Surrogate: p-Terphenyl-d14	*80.8*		µg/L	100		80.8	30-130				

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes	
Batch B186838 - SW-846 3510C											
LCS (B186838-BS1)				Prepared: 09/22/17 Analyzed: 09/25/17							
Acenaphthene (SIM)	41.1	7.5	µg/L	50.0		82.2	40-140				
Acenaphthylene (SIM)	40.0	7.5	µg/L	50.0		80.1	40-140				
Anthracene (SIM)	41.9	5.0	µg/L	50.0		83.8	40-140				
Benzo(a)anthracene (SIM)	42.5	1.2	µg/L	50.0		85.0	40-140			B	
Benzo(a)pyrene (SIM)	44.2	2.5	µg/L	50.0		88.5	40-140				
Benzo(b)fluoranthene (SIM)	45.3	1.2	µg/L	50.0		90.6	40-140			B	
Benzo(g,h,i)perylene (SIM)	43.2	12	µg/L	50.0		86.5	40-140				
Benzo(k)fluoranthene (SIM)	43.6	5.0	µg/L	50.0		87.3	40-140				
Chrysene (SIM)	42.9	5.0	µg/L	50.0		85.8	40-140				
Dibenz(a,h)anthracene (SIM)	40.4	5.0	µg/L	50.0		80.8	40-140				
Fluoranthene (SIM)	42.7	12	µg/L	50.0		85.4	40-140				
Fluorene (SIM)	39.3	25	µg/L	50.0		78.6	40-140				
Indeno(1,2,3-cd)pyrene (SIM)	42.3	5.0	µg/L	50.0		84.6	40-140				
2-Methylnaphthalene (SIM)	38.1	25	µg/L	50.0		76.2	40-140				
Naphthalene (SIM)	38.5	25	µg/L	50.0		77.0	40-140			B	
Phenanthrene (SIM)	41.9	1.2	µg/L	50.0		83.8	40-140			B	
Pyrene (SIM)	44.4	25	µg/L	50.0		88.9	40-140				
Surrogate: Nitrobenzene-d5	*86.6*		µg/L	100		86.6	30-130				
Surrogate: 2-Fluorobiphenyl	*92.7*		µg/L	100		92.7	30-130				
Surrogate: p-Terphenyl-d14	*70.4*		µg/L	100		70.4	30-130				
LCS Dup (B186838-BSD1)				Prepared: 09/22/17 Analyzed: 09/25/17							
Acenaphthene (SIM)	48.2	7.5	µg/L	50.0		96.4	40-140	16.0	20		
Acenaphthylene (SIM)	47.1	7.5	µg/L	50.0		94.2	40-140	16.2	20		
Anthracene (SIM)	48.7	5.0	µg/L	50.0		97.4	40-140	15.1	20		
Benzo(a)anthracene (SIM)	49.8	1.2	µg/L	50.0		99.5	40-140	15.7	20	B	
Benzo(a)pyrene (SIM)	51.4	2.5	µg/L	50.0		103	40-140	15.0	20		
Benzo(b)fluoranthene (SIM)	52.9	1.2	µg/L	50.0		106	40-140	15.5	20	B	
Benzo(g,h,i)perylene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	14.3	20		
Benzo(k)fluoranthene (SIM)	50.6	5.0	µg/L	50.0		101	40-140	14.7	20		
Chrysene (SIM)	49.9	5.0	µg/L	50.0		99.8	40-140	15.1	20		
Dibenz(a,h)anthracene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140	14.7	20		
Fluoranthene (SIM)	50.8	12	µg/L	50.0		102	40-140	17.4	20		
Fluorene (SIM)	47.7	25	µg/L	50.0		95.4	40-140	19.2	20		
Indeno(1,2,3-cd)pyrene (SIM)	49.2	5.0	µg/L	50.0		98.5	40-140	15.1	20		‡
2-Methylnaphthalene (SIM)	46.0	25	µg/L	50.0		92.0	40-140	18.8	20		
Naphthalene (SIM)	45.2	25	µg/L	50.0		90.4	40-140	16.1	20	B	
Phenanthrene (SIM)	48.5	1.2	µg/L	50.0		97.0	40-140	14.7	20	B	
Pyrene (SIM)	53.1	25	µg/L	50.0		106	40-140	17.8	20		
Surrogate: Nitrobenzene-d5	*105*		µg/L	100		105	30-130				
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	100		107	30-130				
Surrogate: p-Terphenyl-d14	*86.9*		µg/L	100		86.9	30-130				

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186723 - SW-846 3510C										
Blank (B186723-BLK1)				Prepared: 09/21/17 Analyzed: 09/23/17						
Aroclor-1016	ND	0.20	µg/L							
Aroclor-1016 [2C]	ND	0.20	µg/L							
Aroclor-1221	ND	0.20	µg/L							
Aroclor-1221 [2C]	ND	0.20	µg/L							
Aroclor-1232	ND	0.20	µg/L							
Aroclor-1232 [2C]	ND	0.20	µg/L							
Aroclor-1242	ND	0.20	µg/L							
Aroclor-1242 [2C]	ND	0.20	µg/L							
Aroclor-1248	ND	0.20	µg/L							
Aroclor-1248 [2C]	ND	0.20	µg/L							
Aroclor-1254	ND	0.20	µg/L							
Aroclor-1254 [2C]	ND	0.20	µg/L							
Aroclor-1260	ND	0.20	µg/L							
Aroclor-1260 [2C]	ND	0.20	µg/L							
Aroclor-1262	ND	0.20	µg/L							
Aroclor-1262 [2C]	ND	0.20	µg/L							
Aroclor-1268	ND	0.20	µg/L							
Aroclor-1268 [2C]	ND	0.20	µg/L							
Surrogate: Decachlorobiphenyl	*1.61*		µg/L	2.00		80.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.89*		µg/L	2.00		94.5	30-150			
Surrogate: Tetrachloro-m-xylene	*1.96*		µg/L	2.00		97.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.95*		µg/L	2.00		97.4	30-150			
LCS (B186723-BS1)				Prepared: 09/21/17 Analyzed: 09/23/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140			
Aroclor-1016 [2C]	0.57	0.20	µg/L	0.500		115	40-140			
Aroclor-1260	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Surrogate: Decachlorobiphenyl	*1.58*		µg/L	2.00		78.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.85*		µg/L	2.00		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*2.06*		µg/L	2.00		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.08*		µg/L	2.00		104	30-150			
LCS Dup (B186723-BSD1)				Prepared: 09/21/17 Analyzed: 09/23/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140	0.136	20	
Aroclor-1016 [2C]	0.56	0.20	µg/L	0.500		111	40-140	3.07	20	
Aroclor-1260	0.50	0.20	µg/L	0.500		100	40-140	7.23	20	
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140	5.47	20	
Surrogate: Decachlorobiphenyl	*1.30*		µg/L	2.00		64.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.52*		µg/L	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.89*		µg/L	2.00		94.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.89*		µg/L	2.00		94.7	30-150			

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QUALITY CONTROL

SPLP - Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B186723 - SW-846 3510C										
Matrix Spike (B186723-MS1)		**Source: 17I0542-02**		Prepared: 09/21/17 Analyzed: 09/23/17						
Aroclor-1016	0.63	0.20	µg/L	0.500	ND	126	40-140			
Aroclor-1016 [2C]	0.63	0.20	µg/L	0.500	ND	126	40-140			
Aroclor-1260	0.54	0.20	µg/L	0.500	ND	109	40-140			
Aroclor-1260 [2C]	0.54	0.20	µg/L	0.500	ND	109	40-140			
Surrogate: Decachlorobiphenyl	*1.63*		µg/L	2.00		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.93*		µg/L	2.00		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	*2.11*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.09*		µg/L	2.00		104	30-150			

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QUALITY CONTROL

SPLP - Semivolatile Organic Compounds by GC - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B186922 - SW-846 3510C											
Blank (B186922-BLK1)				Prepared: 09/24/17 Analyzed: 09/25/17							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.107*		mg/L	0.100		107		50-150			
LCS (B186922-BS1)				Prepared & Analyzed: 09/24/17							
CT ETPH	0.655	0.075	mg/L	1.00		65.5		60-120			
Surrogate: o-Terphenyl	*0.0961*		mg/L	0.100		96.1		50-150			
LCS Dup (B186922-BSD1)				Prepared & Analyzed: 09/24/17							
CT ETPH	0.574	0.075	mg/L	1.00		**57.4**	*	60-120	13.1	30	L-07
Surrogate: o-Terphenyl	*0.0958*		mg/L	0.100		95.8		50-150			
Matrix Spike (B186922-MS1)	**Source: 17I0542-11RE1**			Prepared: 09/24/17 Analyzed: 09/25/17							
CT ETPH	1.15	0.066	mg/L	1.47	0.915	**15.7**	*	50-150			MS-08
Surrogate: o-Terphenyl	*0.105*		mg/L	0.147		71.5		50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-6-1R

Lab Sample ID: 17I0542-02

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-19-2R

Lab Sample ID: 17I0542-04

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.57	
	1	0.000	0.000	0.000	0.34	
	2	0.000	-0.030	0.030	0.61	6.8
	2	0.000	0.000	0.000	0.34	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-22-2R

Lab Sample ID: 17I0542-06

Date(s) Analyzed: 09/25/2017 09/25/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.79	
	2	0.000	-0.030	0.030	0.77	2.6
Aroclor-1260	1	0.000	-0.030	0.030	2.0	
	1	0.000	0.000	0.000	0.98	
	2	0.000	-0.030	0.030	2.0	0.0
	2	0.000	0.000	0.000	0.98	0.0

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-23-1R

Lab Sample ID: 17I0542-07

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.46	4.4

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-23-2R

Lab Sample ID: 17I0542-08

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.76	
	2	0.000	-0.030	0.030	0.84	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-23-3R

Lab Sample ID: 17I0542-09 Date(s) Analyzed: 09/25/2017 09/25/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.80	
	2	0.000	-0.030	0.030	0.52	42.4
Aroclor-1260	1	0.000	0.000	0.000	0.41	
	1	0.000	-0.030	0.030	1.8	
	2	0.000	0.000	0.000	0.41	0.0
	2	0.000	-0.030	0.030	1.8	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-13-SO-25-4R

Lab Sample ID: 17I0542-10

Date(s) Analyzed: 09/24/2017 09/24/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	0.000	0.000	3.6	
	1	0.000	-0.030	0.030	48	
	2	0.000	-0.030	0.030	49	2.1
	2	0.000	0.000	0.000	3.5	2.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-7-2R

Lab Sample ID: 17I0542-14

Date(s) Analyzed: 09/25/2017 09/25/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.87	23.4
Aroclor-1260	1	0.000	-0.030	0.030	3.0	
	2	0.000	-0.030	0.030	3.1	3.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-7-3R

Lab Sample ID: 17I0542-15

Date(s) Analyzed: 09/25/2017 09/25/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	330	
	1	0.000	0.000	0.000	1.6	
	2	0.000	-0.030	0.030	330	0.0
	2	0.000	0.000	0.000	1.6	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-07-SO-8-1R

Lab Sample ID: 17I0542-16

Date(s) Analyzed: 09/25/2017 09/25/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	1	0.000	0.000	0.000	0.27	
	2	0.000	0.000	0.000	0.26	3.8
	2	0.000	-0.030	0.030	1.6	6.5

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
B	Analyte is found in the associated blank as well as in the sample.
B-07	Data is not affected by elevated level in blank since sample result is >10x level found in the blank.
E	Reported result is estimated. Value reported over verified calibration range.
L-07	Either laboratory fortified blank/laboratory control sample or duplicate recovery is outside of control limits, but the other is within limits. RPD between the two LFB/LCS results is within method specified criteria.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
P-01	Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
RL-12	Elevated reporting limit due to matrix interference.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2019
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2018
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17I0542

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	SPLP PCBs	PAHs	SPLP PAHs
01	WS-AOC-13-SO-5-3R	9/13/17	1217		X	S	U			X	X
02	WS-AOC-13-SO-6-1R	9/13/17	1226		X	S	U	X	X		
03	WS-AOC-13-SO-9-3R	9/13/17	1236		X	S	U			X	X
04	WS-AOC-13-SO-19-2R	9/13/17	1246		X	S	U	X	X		
05	WS-AOC-13-SO-21-1R	9/13/17	1253		X	S	U			X	X
06	WS-AOC-13-SO-22-2R	9/13/17	1303		X	S	U	X	X		
07	WS-AOC-13-SO-23-1R	9/13/17	1310		X	S	U	X	X		
08	WS-AOC-13-SO-23-2R	9/13/17	1311		X	S	U	X	X		
09	WS-AOC-13-SO-23-3R	9/13/17	1312		X	S	U	X	X		
10	WS-AOC-13-SO-25-4R	9/13/17	1332		X	S	U	X	X		

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

[redacted]

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature) [signature]	Date/Time: 9/13/17 1515
Received by: (signature) [signature]	Date/Time: 9/13/17 1515
Relinquished by: (signature) [signature]	Date/Time: 9/13/17 1617
Received by: (signature) Tom Marie	Date/Time: 9/13/17 1617
Relinquished by: (signature) Tom Marie	Date/Time: 9/13/17 1830
Received by: (signature) [signature] 4.1C	Date/Time: 9/13/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs, Soxhlet	SPLP PCBs	PAHs	SPLP PAHs	ETPH	SPLP ETPH							# of Containers	[2] Preservation Code	[3] Container Code
																				1	I	A
11	WS-AOC-07-SO-2-3R	9/13/17	1420		X	S	U					X	X									
12	WS-AOC-07-SO-3-3R		1400									X	X									
13	WS-AOC-07-SO-4-3R		1437									X	X									
14	WS-AOC-07-SO-7-2R		1425					X	X													
15	WS-AOC-07-SO-7-3R		1426					X	X													
16	WS-AOC-07-SO-8-1R		1446					X	X													
17	WS-AOC-07-SO-9-3R		1453							X	X	X	X									
18	WS-AOC-07-SO DUP62	↓	—		↓	↓	↓					X	X									

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

~~Please hold excess volumes for possible SPLP analyses.~~ MB

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 9/13/17 1515
Received by: (signature)	Date/Time: 9/13/17 1515
Relinquished by: (signature)	Date/Time: 9/13/17 1617
Received by: (signature)	Date/Time: 9/13/17 1617
Relinquished by: (signature)	Date/Time: 9/13/17 1830
Received by: (signature) 4°C	Date/Time: 9/13/17 1830

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By BLF Date 9/13/17 Time 1830

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 4.1°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? NA
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? F Who was notified? ____
Are there Rushes? F Who was notified? ____
Are there Short Holds? F Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? NA MS/MSD? NA
Proper Media/Containers Used? T Is splitting samples required? F
Were trip blanks received? F On COC? NA
Do all samples have the proper pH? Acid NA Base NA

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	19
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A092117\A0921006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/21/17
Data File Name	A0921006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	434666	469136	-7
c - 10	1.64	444552	469136	-5
c - 12	2.37	462305	469136	-1
c - 14	3.04	472466	469136	1
c - 16	3.65	483524	469136	3
c - 18	4.28	480653	469136	2
o-Terphenyl	4.57	531990	469136	
c - 20	4.89	487648	469136	4
c - 22	5.39	495927	469136	6
c - 24	5.83	461697	469136	-2
c - 26	6.23	483879	469136	3
c - 28	6.59	475962	469136	1
c - 30	6.92	469828	469136	0
c - 32	7.23	458411	469136	-2
c - 34	7.53	461160	469136	-2
c - 36	7.87	464367	469136	-1

* One compound allowed %D <= 50%

Samples

17I0542-11@20X
17I0542-12@20X