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

17C-1169

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	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOCIZE-SO-18-1	7/25/17	15:16		X	S	U	X					
02	WS-AOCIZE-SO-18-2	↓	15:17		↓	↓	↓	X					
03	WS-AOCIZE-SO-18-3		15:18					X					
04	WS-AOCIZE-SO-6-1A		15:10					X					
05	WS-AOCIZE-SO-6-1B		15:12						X	X			
06	WS-AOCIZE-SO-6-2		15:14					X					
07	WS-AOCIZE-SO-6-3		15:16					X					
08	WS-AOCIZE-SO-13-1A		15:34					X					
09	WS-AOCIZE-SO-13-1B		15:35							X			
10	WS-AOCIZE-SO-13-2	↓	15:36		↓	↓	↓	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:

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]	7/26/17 1530
Received by: (signature)	Date/Time:
[signature]	7/26/17 15:30
Relinquished by: (signature)	Date/Time:
[signature]	7/26/17 17:03
Received by: (signature)	Date/Time:
[signature]	7/26/17 17[illegible]
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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17G1169

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
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Company Name:	Weston & Sampson Engineers
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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) PCB	PAH	ETPH	Arsenic	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-13-3	7/25/17	15:37		X	S	U	X							
12	WS-AOC12E-SO-9-1		15:50					X							
13	WS-AOC12E-SO-9-2		15:52					X							
14	WS-AOC12E-SO-9-3		15:54					X							
15	WS-AOC12W-SO-50-1	7/26/17	9:05					X							
16	WS-AOC12W-SO-50-2A	7/26/17	9:06					X							
17	WS-AOC12W-SO-50-2B		9:07						X	X	X				
18	WS-AOC12W-SO-50-3		9:08					X							
19	WS-AOC12W-SO-50-4		9:09					X							
20	WS-AOC12W-SO-97-4		9:20					X							

Comments:
WS-AOC12W-SO-97-4 (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

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
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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 15:3
Relinquished by: (signature)	Date/Time:
	7/26/17 17:03
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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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	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

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: 17G1169

Laboratory Sample ID(s):

17G1169-01 thru 17G1169-20

Sample Date(s):

07/25/2017,
07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, 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:** **08/07/17**

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: 17G1169

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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17G1169-10	26
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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: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1169

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-AOC12E-SO-18-1	17G1169-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-18-2	17G1169-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-18-3	17G1169-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-1A	17G1169-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-1B	17G1169-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-6-2	17G1169-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-3	17G1169-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-1A	17G1169-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-1B	17G1169-09	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12E-SO-13-2	17G1169-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-3	17G1169-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-1	17G1169-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-2	17G1169-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-3	17G1169-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-1	17G1169-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-2A	17G1169-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-2B	17G1169-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-50-3	17G1169-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-4	17G1169-19	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

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: 17G1169

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-AOC12W-SO-96-4	17G1169-20	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 6010, only As and Pb were requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 6010C-D

Qualifications:

M-10

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

Analyte & Samples(s) Qualified:

Lead

17G1169-17RE1[WS-AOC12W-SO-50-2B], B183019-DUP1, B183019-MRL1

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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-1 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-01

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	8/3/17	8/4/17 18:26	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		8/4/17 18:26
Decachlorobiphenyl [2]	95.8	30-150		8/4/17 18:26
Tetrachloro-m-xylene [1]	91.1	30-150		8/4/17 18:26
Tetrachloro-m-xylene [2]	95.2	30-150		8/4/17 18:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-1 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-01

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	88.3		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-2 Sampled: 7/25/2017 15:17

Sample ID: 17G1169-02

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	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.7	30-150		8/4/17 18:38
Decachlorobiphenyl [2]	83.9	30-150		8/4/17 18:38
Tetrachloro-m-xylene [1]	81.5	30-150		8/4/17 18:38
Tetrachloro-m-xylene [2]	85.3	30-150		8/4/17 18:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-2 Sampled: 7/25/2017 15:17

Sample ID: 17G1169-02

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	74.6		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-3 Sampled: 7/25/2017 15:18

Sample ID: 17G1169-03

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.1	30-150		8/4/17 18:50
Decachlorobiphenyl [2]	88.3	30-150		8/4/17 18:50
Tetrachloro-m-xylene [1]	93.6	30-150		8/4/17 18:50
Tetrachloro-m-xylene [2]	97.5	30-150		8/4/17 18:50

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-3 Sampled: 7/25/2017 15:18

Sample ID: 17G1169-03

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	80.9		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1A Sampled: 7/25/2017 15:10

Sample ID: 17G1169-04

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	8/4/17 19:03	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.6	30-150		8/4/17 19:03
Decachlorobiphenyl [2]	99.0	30-150		8/4/17 19:03
Tetrachloro-m-xylene [1]	88.4	30-150		8/4/17 19:03
Tetrachloro-m-xylene [2]	91.7	30-150		8/4/17 19:03

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1A Sampled: 7/25/2017 15:10

Sample ID: 17G1169-04

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	91.6		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

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	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Chrysene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Fluoranthene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Phenanthrene	0.28	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Pyrene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.0	30-130		8/4/17 18:44
2-Fluorobiphenyl	62.8	30-130		8/4/17 18:44
p-Terphenyl-d14	82.1	30-130		8/4/17 18:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/7/17 13:08	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.6	50-150		8/7/17 13:08

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

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	81.0		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2 Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

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	8/4/17 19:15	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		8/4/17 19:15
Decachlorobiphenyl [2]	91.2	30-150		8/4/17 19:15
Tetrachloro-m-xylene [1]	83.5	30-150		8/4/17 19:15
Tetrachloro-m-xylene [2]	87.5	30-150		8/4/17 19:15

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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2 Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

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	84.7		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-3 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-07

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		8/4/17 19:27
Decachlorobiphenyl [2]	95.0	30-150		8/4/17 19:27
Tetrachloro-m-xylene [1]	82.3	30-150		8/4/17 19:27
Tetrachloro-m-xylene [2]	85.7	30-150		8/4/17 19:27

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-3 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-07

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	80.8		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1A Sampled: 7/25/2017 15:34

Sample ID: 17G1169-08

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	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	113	30-150		8/4/17 19:39
Decachlorobiphenyl [2]	109	30-150		8/4/17 19:39
Tetrachloro-m-xylene [1]	101	30-150		8/4/17 19:39
Tetrachloro-m-xylene [2]	104	30-150		8/4/17 19:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1A Sampled: 7/25/2017 15:34

Sample ID: 17G1169-08

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	94.7		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1B Sampled: 7/25/2017 15:35

Sample ID: 17G1169-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	67	57	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/4/17 22:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.0	50-150		8/4/17 22:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1B Sampled: 7/25/2017 15:35

Sample ID: 17G1169-09

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	88.0		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-2 Sampled: 7/25/2017 15:36

Sample ID: 17G1169-10

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	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/4/17 20:28
Decachlorobiphenyl [2]	100	30-150		8/4/17 20:28
Tetrachloro-m-xylene [1]	77.7	30-150		8/4/17 20:28
Tetrachloro-m-xylene [2]	83.3	30-150		8/4/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-2 Sampled: 7/25/2017 15:36

Sample ID: 17G1169-10

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	87.8		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-3 Sampled: 7/25/2017 15:37

Sample ID: 17G1169-11

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/4/17 20:40
Decachlorobiphenyl [2]	99.9	30-150		8/4/17 20:40
Tetrachloro-m-xylene [1]	73.6	30-150		8/4/17 20:40
Tetrachloro-m-xylene [2]	78.2	30-150		8/4/17 20:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-3 Sampled: 7/25/2017 15:37

Sample ID: 17G1169-11

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	84.4		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-1 Sampled: 7/25/2017 15:50

Sample ID: 17G1169-12

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	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	114	30-150		8/4/17 20:53
Decachlorobiphenyl [2]	113	30-150		8/4/17 20:53
Tetrachloro-m-xylene [1]	101	30-150		8/4/17 20:53
Tetrachloro-m-xylene [2]	106	30-150		8/4/17 20:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-1 Sampled: 7/25/2017 15:50

Sample ID: 17G1169-12

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	97.6		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-2 Sampled: 7/25/2017 15:52

Sample ID: 17G1169-13

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	8/3/17	8/4/17 21:05	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/4/17 21:05
Decachlorobiphenyl [2]	101	30-150		8/4/17 21:05
Tetrachloro-m-xylene [1]	107	30-150		8/4/17 21:05
Tetrachloro-m-xylene [2]	111	30-150		8/4/17 21:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-2 Sampled: 7/25/2017 15:52

Sample ID: 17G1169-13

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	94.0		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-3 Sampled: 7/25/2017 15:54

Sample ID: 17G1169-14

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	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/4/17 21:17
Decachlorobiphenyl [2]	102	30-150		8/4/17 21:17
Tetrachloro-m-xylene [1]	90.3	30-150		8/4/17 21:17
Tetrachloro-m-xylene [2]	92.9	30-150		8/4/17 21:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-3 Sampled: 7/25/2017 15:54

Sample ID: 17G1169-14

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	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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-1 Sampled: 7/26/2017 09:05

Sample ID: 17G1169-15

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	8/3/17	8/4/17 21:29	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/4/17 21:29
Decachlorobiphenyl [2]	100	30-150		8/4/17 21:29
Tetrachloro-m-xylene [1]	84.6	30-150		8/4/17 21:29
Tetrachloro-m-xylene [2]	88.6	30-150		8/4/17 21:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-1 Sampled: 7/26/2017 09:05

Sample ID: 17G1169-15

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	95.1		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2A Sampled: 7/26/2017 09:06

Sample ID: 17G1169-16

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	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		8/4/17 21:41
Decachlorobiphenyl [2]	69.4	30-150		8/4/17 21:41
Tetrachloro-m-xylene [1]	71.5	30-150		8/4/17 21:41
Tetrachloro-m-xylene [2]	75.4	30-150		8/4/17 21:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2A Sampled: 7/26/2017 09:06

Sample ID: 17G1169-16

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	96.8		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	50.4	30-130		8/5/17 14:46
2-Fluorobiphenyl	55.6	30-130		8/5/17 14:46
p-Terphenyl-d14	74.4	30-130		8/5/17 14:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	18	10	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.6	50-150		8/4/17 23:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/27/17	7/31/17 14:55	QNW
Lead	3.3	0.76	mg/Kg dry	1	M-10	SW-846 6010C-D	8/1/17	8/3/17 12:47	QNW

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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

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	96.4		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-3 Sampled: 7/26/2017 09:08

Sample ID: 17G1169-18

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	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	121	30-150		8/4/17 21:54
Decachlorobiphenyl [2]	112	30-150		8/4/17 21:54
Tetrachloro-m-xylene [1]	96.4	30-150		8/4/17 21:54
Tetrachloro-m-xylene [2]	98.8	30-150		8/4/17 21:54

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-3 Sampled: 7/26/2017 09:08

Sample ID: 17G1169-18

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	96.8		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4 Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

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	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		8/4/17 22:06
Decachlorobiphenyl [2]	103	30-150		8/4/17 22:06
Tetrachloro-m-xylene [1]	85.4	30-150		8/4/17 22:06
Tetrachloro-m-xylene [2]	87.8	30-150		8/4/17 22:06

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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4 Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

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	81.9		% 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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-96-4 Sampled: 7/26/2017 09:20

Sample ID: 17G1169-20

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	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1260 [2]	0.17	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.8	30-150		8/4/17 22:18
Decachlorobiphenyl [2]	104	30-150		8/4/17 22:18
Tetrachloro-m-xylene [1]	88.2	30-150		8/4/17 22:18
Tetrachloro-m-xylene [2]	92.4	30-150		8/4/17 22:18

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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: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-96-4 Sampled: 7/26/2017 09:20

Sample ID: 17G1169-20

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	87.0		% 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
17G1169-05 [WS-AOC12E-SO-6-1B]	B183209	30.0	1.00	08/03/17
17G1169-09 [WS-AOC12E-SO-13-1B]	B183209	30.0	1.00	08/03/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1169-01 [WS-AOC12E-SO-18-1]	B182889	07/31/17
17G1169-02 [WS-AOC12E-SO-18-2]	B182889	07/31/17
17G1169-03 [WS-AOC12E-SO-18-3]	B182889	07/31/17
17G1169-04 [WS-AOC12E-SO-6-1A]	B182889	07/31/17
17G1169-05 [WS-AOC12E-SO-6-1B]	B182889	07/31/17
17G1169-06 [WS-AOC12E-SO-6-2]	B182889	07/31/17
17G1169-07 [WS-AOC12E-SO-6-3]	B182889	07/31/17
17G1169-08 [WS-AOC12E-SO-13-1A]	B182889	07/31/17
17G1169-09 [WS-AOC12E-SO-13-1B]	B182889	07/31/17
17G1169-10 [WS-AOC12E-SO-13-2]	B182889	07/31/17
17G1169-11 [WS-AOC12E-SO-13-3]	B182889	07/31/17
17G1169-12 [WS-AOC12E-SO-9-1]	B182889	07/31/17
17G1169-13 [WS-AOC12E-SO-9-2]	B182889	07/31/17
17G1169-14 [WS-AOC12E-SO-9-3]	B182889	07/31/17
17G1169-15 [WS-AOC12W-SO-50-1]	B182889	07/31/17
17G1169-16 [WS-AOC12W-SO-50-2A]	B182889	07/31/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B182889	07/31/17
17G1169-18 [WS-AOC12W-SO-50-3]	B182889	07/31/17
17G1169-19 [WS-AOC12W-SO-50-4]	B182889	07/31/17
17G1169-20 [WS-AOC12W-SO-96-4]	B182889	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-17 [WS-AOC12W-SO-50-2B]	B182729	1.01	50.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-17RE1 [WS-AOC12W-SO-50-2B]	B183019	1.03	50.0	08/01/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-01 [WS-AOC12E-SO-18-1]	B183245	10.0	10.0	08/03/17
17G1169-02 [WS-AOC12E-SO-18-2]	B183245	10.0	10.0	08/03/17
17G1169-03 [WS-AOC12E-SO-18-3]	B183245	10.0	10.0	08/03/17
17G1169-04 [WS-AOC12E-SO-6-1A]	B183245	10.0	10.0	08/03/17
17G1169-06 [WS-AOC12E-SO-6-2]	B183245	10.0	10.0	08/03/17
17G1169-07 [WS-AOC12E-SO-6-3]	B183245	10.0	10.0	08/03/17
17G1169-08 [WS-AOC12E-SO-13-1A]	B183245	10.0	10.0	08/03/17
17G1169-10 [WS-AOC12E-SO-13-2]	B183245	10.0	10.0	08/03/17
17G1169-11 [WS-AOC12E-SO-13-3]	B183245	10.0	10.0	08/03/17

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-12 [WS-AOC12E-SO-9-1]	B183245	10.0	10.0	08/03/17
17G1169-13 [WS-AOC12E-SO-9-2]	B183245	10.0	10.0	08/03/17
17G1169-14 [WS-AOC12E-SO-9-3]	B183245	10.0	10.0	08/03/17
17G1169-15 [WS-AOC12W-SO-50-1]	B183245	10.0	10.0	08/03/17
17G1169-16 [WS-AOC12W-SO-50-2A]	B183245	10.0	10.0	08/03/17
17G1169-18 [WS-AOC12W-SO-50-3]	B183245	10.0	10.0	08/03/17
17G1169-19 [WS-AOC12W-SO-50-4]	B183245	10.0	10.0	08/03/17
17G1169-20 [WS-AOC12W-SO-96-4]	B183245	10.0	10.0	08/03/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-05 [WS-AOC12E-SO-6-1B]	B183204	30.0	1.00	08/03/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B183204	30.0	1.00	08/03/17

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

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 B183245 - SW-846 3540C										
Blank (B183245-BLK1)				Prepared: 08/03/17 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	*0.238*		mg/Kg wet	0.200		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.215*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			
LCS (B183245-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		92.5	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.4	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		81.2	30-150			
LCS Dup (B183245-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.1	40-140	4.84	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.2	40-140	15.8	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		95.5	40-140	11.2	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		92.5	40-140	11.7	30	
Surrogate: Decachlorobiphenyl	*0.248*		mg/Kg wet	0.200		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.224*		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.4	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 B183245 - SW-846 3540C										
Matrix Spike (B183245-MS1)		**Source: 17G1169-20**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.230	ND	91.7	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.230	ND	96.9	40-140			
Aroclor-1260	0.35	0.11	mg/Kg dry	0.230	0.16	82.4	40-140			
Aroclor-1260 [2C]	0.37	0.11	mg/Kg dry	0.230	0.17	83.8	40-140			
Surrogate: Decachlorobiphenyl	*0.226*		mg/Kg dry	0.230		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.236*		mg/Kg dry	0.230		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg dry	0.230		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.219*		mg/Kg dry	0.230		95.3	30-150			
Matrix Spike Dup (B183245-MSD1)		**Source: 17G1169-20**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.26	0.11	mg/Kg dry	0.230	ND	111	40-140	19.1	50	
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.230	ND	103	40-140	6.23	50	
Aroclor-1260	0.36	0.11	mg/Kg dry	0.230	0.16	87.5	40-140	3.23	50	
Aroclor-1260 [2C]	0.37	0.11	mg/Kg dry	0.230	0.17	85.3	40-140	0.945	50	
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg dry	0.230		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.230		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.230		88.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.230		92.2	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 B182729 - SW-846 3050B										
Blank (B182729-BLK1)				Prepared: 07/27/17	Analyzed: 07/31/17					
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182729-BS1)				Prepared: 07/27/17	Analyzed: 07/31/17					
Arsenic	57.7	5.0	mg/Kg wet	57.0		101	77.8-122.1			
LCS Dup (B182729-BSD1)				Prepared: 07/27/17	Analyzed: 07/31/17					
Arsenic	55.6	5.0	mg/Kg wet	57.0		97.5	77.8-122.1	3.70	30	
Duplicate (B182729-DUP1)	**Source: 17G1169-17**			Prepared: 07/27/17	Analyzed: 07/31/17					
Arsenic	ND	2.6	mg/Kg dry		ND			NC	35	
Matrix Spike (B182729-MS1)	**Source: 17G1169-17**			Prepared: 07/27/17	Analyzed: 07/31/17					
Arsenic	24.0	2.5	mg/Kg dry	25.4	ND	94.4	75-125			
Batch B183019 - SW-846 3050B										
Blank (B183019-BLK1)				Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	ND	0.75	mg/Kg wet							
LCS (B183019-BS1)				Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	76.5	1.5	mg/Kg wet	85.6		89.4	82.4-117.8			
LCS Dup (B183019-BSD1)				Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	87.7	1.5	mg/Kg wet	85.6		102	82.4-117.8	13.6	30	
Duplicate (B183019-DUP1)	**Source: 17G1169-17RE1**			Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	3.65	0.75	mg/Kg dry		3.34			8.95	35	M-10
MRL Check (B183019-MRL1)				Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	1.05	0.74	mg/Kg wet	0.736		**142**	* 80-120			M-10
Matrix Spike (B183019-MS1)	**Source: 17G1169-17RE1**			Prepared: 08/01/17	Analyzed: 08/03/17					
Lead	27.1	0.77	mg/Kg dry	25.6	3.34	92.7	75-125			

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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-DUP5)		**Source: 17G1169-20**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	88.2		% Wt		87.0			1.37	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-96-4

Lab Sample ID: 17G1169-20

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

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

LCS

Lab Sample ID: B183245-BS1

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

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	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183245-BSD1 Date(s) Analyzed 08/04/2017 08/04/2017

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	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183245-MS1 Date(s) Analyzed 08/04/2017 08/04/2017

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	0.21	
	2	0.000	-0.030	0.030	0.22	4.7
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.37	5.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183245-MSD1 Date(s) Analyzed 08/04/2017 08/04/2017

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	0.26	
	2	0.000	-0.030	0.030	0.24	8.0
Aroclor-1260	1	0.000	-0.030	0.030	0.36	
	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.
M-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side.

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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	
Arsenic	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,AIHA,ME,VA,NC
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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
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

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

17C-1169

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	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOCIZE-SO-18-1	7/25/17	15:16		X	S	U	X					
02	WS-AOCIZE-SO-18-2	↓	15:17		↓	↓	↓	X					
03	WS-AOCIZE-SO-18-3		15:18					X					
04	WS-AOCIZE-SO-6-1A		15:10					X					
05	WS-AOCIZE-SO-6-1B		15:12						X	X			
06	WS-AOCIZE-SO-6-2		15:14					X					
07	WS-AOCIZE-SO-6-3		15:16					X					
08	WS-AOCIZE-SO-13-1A		15:34					X					
09	WS-AOCIZE-SO-13-1B		15:35							X			
10	WS-AOCIZE-SO-13-2	↓	15:36		↓	↓	↓	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:

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]	7/26/17 1530
Received by: (signature)	Date/Time:
[signature]	7/26/17 15:30
Relinquished by: (signature)	Date/Time:
[signature]	7/26/17 17:03
Received by: (signature)	Date/Time:
[signature]	7/26/17 17[illegible]
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

17G1169

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

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Company Name:	Weston & Sampson Engineers
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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
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) PCB	PAH	ETPH	Arsenic	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-13-3	7/25/17	15:37		X	S	U	X							
12	WS-AOC12E-SO-9-1		15:50					X							
13	WS-AOC12E-SO-9-2		15:52					X							
14	WS-AOC12E-SO-9-3		15:54					X							
15	WS-AOC12W-SO-50-1	7/26/17	9:05					X							
16	WS-AOC12W-SO-50-2A	7/26/17	9:06					X							
17	WS-AOC12W-SO-50-2B		9:07						X	X	X				
18	WS-AOC12W-SO-50-3		9:08					X							
19	WS-AOC12W-SO-50-4		9:09					X							
20	WS-AOC12W-SO-97-4		9:20					X							

Comments:
WS-AOC12W-SO-97-4 (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

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 15:3
Relinquished by: (signature)	Date/Time:
	7/26/17 17:03
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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P: 413-525-2332
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 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-		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

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: 17G1169

Laboratory Sample ID(s):

17G1169-01 thru 17G1169-20

Sample Date(s):

07/25/2017,
07/26/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, 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:** **08/07/17**

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 25, 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: 17G1437

Enclosed are results of analyses for samples received by the laboratory on July 31, 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: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1437

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-AOC9-SO-DUP-35	17G1437-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-36	17G1437-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-37	17G1437-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC8-SO-DUP-38	17G1437-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-AS-1	17G1437-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-2	17G1437-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-3	17G1437-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-4	17G1437-08	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-5	17G1437-09	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-6	17G1437-10	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-7	17G1437-11	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-8	17G1437-12	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-9	17G1437-13	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-10	17G1437-14	Product/Solid		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.

SW-846 8082A

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]

B183138-BS1, B183138-BSD1

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: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-35 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-01

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	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 22:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.3	30-150		8/24/17 22:55
Decachlorobiphenyl [2]	65.2	30-150		8/24/17 22:55
Tetrachloro-m-xylene [1]	60.6	30-150		8/24/17 22:55
Tetrachloro-m-xylene [2]	68.5	30-150		8/24/17 22:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-35 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-01

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	67.2		% Wt	1		SM 2540G	8/5/17	8/7/17 6:28	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-36 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-02

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	8/8/17	8/24/17 23:13	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1260 [2]	0.16	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.0	30-150		8/24/17 23:13
Decachlorobiphenyl [2]	78.8	30-150		8/24/17 23:13
Tetrachloro-m-xylene [1]	76.4	30-150		8/24/17 23:13
Tetrachloro-m-xylene [2]	85.8	30-150		8/24/17 23:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-36 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-02

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	93.9		% Wt	1		SM 2540G	8/5/17	8/7/17 6:28	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-37 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-03

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	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.1	30-150		8/24/17 23:30
Decachlorobiphenyl [2]	86.2	30-150		8/24/17 23:30
Tetrachloro-m-xylene [1]	80.3	30-150		8/24/17 23:30
Tetrachloro-m-xylene [2]	89.7	30-150		8/24/17 23:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC9-SO-DUP-37 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-03

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	94.4		% Wt	1		SM 2540G	8/5/17	8/7/17 6:28	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC8-SO-DUP-38 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-04

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	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/8/17	8/24/17 23:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		8/24/17 23:48
Decachlorobiphenyl [2]	86.5	30-150		8/24/17 23:48
Tetrachloro-m-xylene [1]	78.4	30-150		8/24/17 23:48
Tetrachloro-m-xylene [2]	88.0	30-150		8/24/17 23:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC8-SO-DUP-38 Sampled: 7/31/2017 00:00

Sample ID: 17G1437-04

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	57.0		% Wt	1		SM 2540G	8/5/17	8/7/17 6:28	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-1 Sampled: 7/31/2017 10:15

Sample ID: 17G1437-05

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	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB
Aroclor-1268 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 7:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		8/10/17 7:45
Decachlorobiphenyl [2]	90.5	30-150		8/10/17 7:45
Tetrachloro-m-xylene [1]	89.4	30-150		8/10/17 7:45
Tetrachloro-m-xylene [2]	92.1	30-150		8/10/17 7:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-2 Sampled: 7/31/2017 10:20

Sample ID: 17G1437-06

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	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB
Aroclor-1268 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		8/10/17 8:03
Decachlorobiphenyl [2]	89.9	30-150		8/10/17 8:03
Tetrachloro-m-xylene [1]	90.1	30-150		8/10/17 8:03
Tetrachloro-m-xylene [2]	92.5	30-150		8/10/17 8:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-3 Sampled: 7/31/2017 10:25

Sample ID: 17G1437-07

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	8/2/17	8/10/17 8:21	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/10/17 8:21
Decachlorobiphenyl [2]	98.3	30-150		8/10/17 8:21
Tetrachloro-m-xylene [1]	98.0	30-150		8/10/17 8:21
Tetrachloro-m-xylene [2]	100	30-150		8/10/17 8:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-4 Sampled: 7/31/2017 10:50

Sample ID: 17G1437-08

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	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.5	30-150		8/10/17 8:39
Decachlorobiphenyl [2]	92.2	30-150		8/10/17 8:39
Tetrachloro-m-xylene [1]	94.7	30-150		8/10/17 8:39
Tetrachloro-m-xylene [2]	96.9	30-150		8/10/17 8:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-5 Sampled: 7/31/2017 10:55

Sample ID: 17G1437-09

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	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB
Aroclor-1268 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 8:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		8/10/17 8:57
Decachlorobiphenyl [2]	89.0	30-150		8/10/17 8:57
Tetrachloro-m-xylene [1]	90.4	30-150		8/10/17 8:57
Tetrachloro-m-xylene [2]	91.4	30-150		8/10/17 8:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-6 Sampled: 7/31/2017 11:00

Sample ID: 17G1437-10

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	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.7	30-150		8/10/17 9:15
Decachlorobiphenyl [2]	96.6	30-150		8/10/17 9:15
Tetrachloro-m-xylene [1]	95.4	30-150		8/10/17 9:15
Tetrachloro-m-xylene [2]	98.3	30-150		8/10/17 9:15

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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: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-7 Sampled: 7/31/2017 11:20

Sample ID: 17G1437-11

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	8/2/17	8/10/17 9:33	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/10/17 9:33
Decachlorobiphenyl [2]	102	30-150		8/10/17 9:33
Tetrachloro-m-xylene [1]	98.4	30-150		8/10/17 9:33
Tetrachloro-m-xylene [2]	104	30-150		8/10/17 9:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-8 Sampled: 7/31/2017 11:25

Sample ID: 17G1437-12

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	8/2/17	8/10/17 9:51	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 9:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		8/10/17 9:51
Decachlorobiphenyl [2]	91.6	30-150		8/10/17 9:51
Tetrachloro-m-xylene [1]	87.6	30-150		8/10/17 9:51
Tetrachloro-m-xylene [2]	92.9	30-150		8/10/17 9:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-9 Sampled: 7/31/2017 11:30

Sample ID: 17G1437-13

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	8/2/17	8/10/17 10:08	JMB
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/10/17 10:08
Decachlorobiphenyl [2]	106	30-150		8/10/17 10:08
Tetrachloro-m-xylene [1]	104	30-150		8/10/17 10:08
Tetrachloro-m-xylene [2]	109	30-150		8/10/17 10:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1437

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-10 Sampled: 7/31/2017 11:40

Sample ID: 17G1437-14

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	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB
Aroclor-1268 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/2/17	8/10/17 10:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/10/17 10:26
Decachlorobiphenyl [2]	109	30-150		8/10/17 10:26
Tetrachloro-m-xylene [1]	106	30-150		8/10/17 10:26
Tetrachloro-m-xylene [2]	113	30-150		8/10/17 10:26

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1437-01 [WS-AOC9-SO-DUP-35]	B183388	08/05/17
17G1437-02 [WS-AOC9-SO-DUP-36]	B183388	08/05/17
17G1437-03 [WS-AOC9-SO-DUP-37]	B183388	08/05/17
17G1437-04 [WS-AOC8-SO-DUP-38]	B183388	08/05/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1437-05 [WS-AOC-12W-AS-1]	B183138	2.05	10.0	08/02/17
17G1437-06 [WS-AOC-12W-AS-2]	B183138	2.07	10.0	08/02/17
17G1437-07 [WS-AOC-12W-AS-3]	B183138	2.00	10.0	08/02/17
17G1437-08 [WS-AOC-12W-AS-4]	B183138	2.00	10.0	08/02/17
17G1437-09 [WS-AOC-12W-AS-5]	B183138	2.06	10.0	08/02/17
17G1437-10 [WS-AOC-12W-AS-6]	B183138	2.03	10.0	08/02/17
17G1437-11 [WS-AOC-12W-AS-7]	B183138	2.02	10.0	08/02/17
17G1437-12 [WS-AOC-12W-AS-8]	B183138	2.03	10.0	08/02/17
17G1437-13 [WS-AOC-12W-AS-9]	B183138	2.03	10.0	08/02/17
17G1437-14 [WS-AOC-12W-AS-10]	B183138	2.06	10.0	08/02/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1437-01 [WS-AOC9-SO-DUP-35]	B183607	10.0	10.0	08/08/17
17G1437-02 [WS-AOC9-SO-DUP-36]	B183607	10.0	10.0	08/08/17
17G1437-03 [WS-AOC9-SO-DUP-37]	B183607	10.0	10.0	08/08/17
17G1437-04 [WS-AOC8-SO-DUP-38]	B183607	10.0	10.0	08/08/17

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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 B183138 - SW-846 3540C										
Blank (B183138-BLK1)				Prepared: 08/02/17 Analyzed: 08/04/17						
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	*0.995*		mg/Kg	1.00		99.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.908*		mg/Kg	1.00		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.856*		mg/Kg	1.00		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.908*		mg/Kg	1.00		90.8	30-150			
LCS (B183138-BS1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.78	0.10	mg/Kg	1.00		78.0	40-140			
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		85.6	40-140			
Aroclor-1260	0.76	0.10	mg/Kg	1.00		76.1	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		78.7	40-140			V-06
Surrogate: Decachlorobiphenyl	*0.994*		mg/Kg	1.00		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.920*		mg/Kg	1.00		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.848*		mg/Kg	1.00		84.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.893*		mg/Kg	1.00		89.3	30-150			
LCS Dup (B183138-BSD1)				Prepared: 08/02/17 Analyzed: 08/04/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00		81.0	40-140	3.74	30	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00		89.6	40-140	4.59	30	
Aroclor-1260	0.79	0.10	mg/Kg	1.00		78.9	40-140	3.67	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		82.8	40-140	5.07	30	V-06
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.982*		mg/Kg	1.00		98.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.886*		mg/Kg	1.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.945*		mg/Kg	1.00		94.5	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 B183607 - SW-846 3540C										
Blank (B183607-BLK1)				Prepared: 08/08/17 Analyzed: 08/24/17						
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	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg wet	0.200		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.6	30-150			
LCS (B183607-BS1)				Prepared: 08/08/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.7	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		71.7	40-140			
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		93.8	30-150			
LCS Dup (B183607-BSD1)				Prepared: 08/08/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.0	40-140	0.789	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.5	40-140	3.27	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	4.16	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.9	40-140	3.02	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.2	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC9-SO-DUP-36

Lab Sample ID: 17G1437-02

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.14	
	2	0.000	-0.030	0.030	0.16	13.3

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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.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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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
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

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

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

1 of 1437

con-test ANALYTICAL LABORATORY
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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	(Soxhlet) PCBs	PAH	ETPH	SVOCs	RSR 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC9-SO-DUP-35	7/31/17			X	S	✓	X								
2	WS-AOC9-SO-DUP-36	↓			↓	↓	↓	X								
3	WS-AOC9-SO-DUP-37	↓			↓	↓	↓	X								
4	WS-AOC8-SO-DUP-38	↓			↓	↓	↓	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: 7/31/17
Received by: (signature)	Date/Time: 7/31/17 15:40
Relinquished by: (signature)	Date/Time: 7/31/17 5:20
Received by: (signature)	Date/Time: 7/31/17 1720
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

17G143 /

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: beele-m@wslinc.com
Fax To #:

Company Name:
Address: 273 Dividend Road, Rocky Hill CT
Phone: 860-513-1473
Project Name: English Station
Project Location: 510 Grand Ave, New Haven CT
Project Number: 21204495
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: N. Zholog Ames

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB w/ Soxhlet extraction											
5	WS-AOC-12W-AS-1	7/31/17	1015		X	O		X											
6	WS-AOC-12W-AS-2	↓	1020		↓	↓		↓											
7	WS-AOC-12W-AS-3		1025																
8	WS-AOC-12W-AS-4		1050																
9	WS-AOC-12W-AS-5		1055																
10	WS-AOC-12W-AS-6		1100																
11	WS-AOC-12W-AS-7		1120																
12	WS-AOC-12W-AS-8		1125																
13	WS-AOC-12W-AS-9		1130																
14	WS-AOC-12W-AS-10	↓	1140		↓	↓		↓											

Comments:

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	# 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
SL = Sludge
SOL = Solid
O = Other (please define) Asphalt

[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: 7/31/17 1540
Received by: (signature) 7/31/17	Date/Time: 15.40
Relinquished by: (signature) 7/31/17	Date/Time: 5.20
Received by: (signature) 7/31/17	Date/Time: 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: RES DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP, LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 JM Date 7/31/17 Time 1720

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 - 2.7, 4.0
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	4
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	10
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: 17G1437

Laboratory Sample ID(s):

17G1437-01 thru 17G1437-14

Sample Date(s):

07/31/2017

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:** **08/25/17**

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

October 5, 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: 17G1438

Enclosed are results of analyses for samples received by the laboratory on July 31, 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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17G1438-09 14

17G1438-10 15

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

REPORT DATE: 10/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1438

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-12W-AS-11	17G1438-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-12	17G1438-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-13	17G1438-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-14	17G1438-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-15	17G1438-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-16	17G1438-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-17	17G1438-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-18	17G1438-08	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-19	17G1438-09	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-20	17G1438-10	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-Dup-1	17G1438-11	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-21	17G1438-12	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-22	17G1438-13	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-23	17G1438-14	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-24	17G1438-15	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-25	17G1438-16	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-26	17G1438-17	Product/Solid		SW-846 8082A	
EB-22	17G1438-18	Equipment Blank Water		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.

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17G1438-01[WS-AOC-12W-AS-11], 17G1438-02[WS-AOC-12W-AS-12], 17G1438-03[WS-AOC-12W-AS-13], 17G1438-04[WS-AOC-12W-AS-14], 17G1438-05[WS-AOC-12W-AS-15], 17G1438-06[WS-AOC-12W-AS-16], 17G1438-07[WS-AOC-12W-AS-17], 17G1438-08[WS-AOC-12W-AS-18], 17G1438-09[WS-AOC-12W-AS-19], 17G1438-10[WS-AOC-12W-AS-20], 17G1438-11[WS-AOC-12W-AS-Dup-1], 17G1438-12[WS-AOC-12W-AS-21], 17G1438-13[WS-AOC-12W-AS-22], 17G1438-14[WS-AOC-12W-AS-23], 17G1438-15[WS-AOC-12W-AS-24], 17G1438-16[WS-AOC-12W-AS-25], 17G1438-17[WS-AOC-12W-AS-26]

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl

17G1438-18[EB-22]

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:

Aroclor-1268

17G1438-01[WS-AOC-12W-AS-11], 17G1438-02[WS-AOC-12W-AS-12], 17G1438-03[WS-AOC-12W-AS-13], 17G1438-04[WS-AOC-12W-AS-14], 17G1438-05[WS-AOC-12W-AS-15], 17G1438-06[WS-AOC-12W-AS-16], 17G1438-07[WS-AOC-12W-AS-17], 17G1438-08[WS-AOC-12W-AS-18], 17G1438-09[WS-AOC-12W-AS-19], 17G1438-10[WS-AOC-12W-AS-20], 17G1438-11[WS-AOC-12W-AS-Dup-1], 17G1438-12[WS-AOC-12W-AS-21], 17G1438-13[WS-AOC-12W-AS-22], 17G1438-14[WS-AOC-12W-AS-23], 17G1438-15[WS-AOC-12W-AS-24], 17G1438-16[WS-AOC-12W-AS-25], 17G1438-17[WS-AOC-12W-AS-26]

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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-11 Sampled: 7/31/2017 11:45

Sample ID: 17G1438-01

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1260 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 21:59	KAL
Aroclor-1268 [1]	ND	0.93	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 21:59	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.9	30-150		8/11/17 21:59
Decachlorobiphenyl [2]	68.0	30-150		8/11/17 21:59
Tetrachloro-m-xylene [1]	53.6	30-150		8/11/17 21:59
Tetrachloro-m-xylene [2]	66.8	30-150		8/11/17 21:59

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-12 Sampled: 7/31/2017 11:50

Sample ID: 17G1438-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

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	8/8/17	8/11/17 22:18	KAL
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:18	KAL
Aroclor-1268 [1]	ND	0.98	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 22:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/11/17 22:18
Decachlorobiphenyl [2]	99.7	30-150		8/11/17 22:18
Tetrachloro-m-xylene [1]	90.6	30-150		8/11/17 22:18
Tetrachloro-m-xylene [2]	98.3	30-150		8/11/17 22:18

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-13 Sampled: 7/31/2017 11:55

Sample ID: 17G1438-03

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1221 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1232 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1242 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1248 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1254 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1260 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1262 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:36	KAL
Aroclor-1268 [1]	ND	0.77	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 22:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/11/17 22:36
Decachlorobiphenyl [2]	106	30-150		8/11/17 22:36
Tetrachloro-m-xylene [1]	98.1	30-150		8/11/17 22:36
Tetrachloro-m-xylene [2]	108	30-150		8/11/17 22:36

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-14 Sampled: 7/31/2017 12:40

Sample ID: 17G1438-04

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1221 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1232 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1242 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1248 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1254 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1260 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1262 [1]	ND	0.72	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 22:54	KAL
Aroclor-1268 [1]	ND	0.72	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 22:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	113	30-150		8/11/17 22:54
Decachlorobiphenyl [2]	109	30-150		8/11/17 22:54
Tetrachloro-m-xylene [1]	104	30-150		8/11/17 22:54
Tetrachloro-m-xylene [2]	111	30-150		8/11/17 22:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-15 Sampled: 7/31/2017 12:45

Sample ID: 17G1438-05

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1221 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1232 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1242 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1248 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1254 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1260 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1262 [1]	ND	0.74	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:12	KAL
Aroclor-1268 [1]	ND	0.74	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 23:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.8	30-150		8/11/17 23:12
Decachlorobiphenyl [2]	94.0	30-150		8/11/17 23:12
Tetrachloro-m-xylene [1]	93.0	30-150		8/11/17 23:12
Tetrachloro-m-xylene [2]	97.4	30-150		8/11/17 23:12

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-16 Sampled: 7/31/2017 12:55

Sample ID: 17G1438-06

Sample Matrix: Product/Solid

Sample Flags: DL-03

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	8/8/17	8/11/17 23:31	KAL
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:31	KAL
Aroclor-1268 [1]	ND	0.98	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 23:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		8/11/17 23:31
Decachlorobiphenyl [2]	93.2	30-150		8/11/17 23:31
Tetrachloro-m-xylene [1]	90.5	30-150		8/11/17 23:31
Tetrachloro-m-xylene [2]	96.4	30-150		8/11/17 23:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-17 Sampled: 7/31/2017 13:00

Sample ID: 17G1438-07

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1221 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1232 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1242 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1248 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1254 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1260 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1262 [1]	ND	0.81	mg/Kg	10		SW-846 8082A	8/8/17	8/11/17 23:49	KAL
Aroclor-1268 [1]	ND	0.81	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/11/17 23:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.2	30-150		8/11/17 23:49
Decachlorobiphenyl [2]	92.8	30-150		8/11/17 23:49
Tetrachloro-m-xylene [1]	97.2	30-150		8/11/17 23:49
Tetrachloro-m-xylene [2]	100	30-150		8/11/17 23:49

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-18 Sampled: 7/31/2017 13:10

Sample ID: 17G1438-08

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1221 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1232 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1242 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1248 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1254 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1260 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1262 [1]	ND	0.68	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:07	KAL
Aroclor-1268 [1]	ND	0.68	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 0:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.0	30-150		8/12/17 0:07
Decachlorobiphenyl [2]	94.8	30-150		8/12/17 0:07
Tetrachloro-m-xylene [1]	93.6	30-150		8/12/17 0:07
Tetrachloro-m-xylene [2]	98.3	30-150		8/12/17 0:07

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-19 Sampled: 7/31/2017 13:15

Sample ID: 17G1438-09

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:25	KAL
Aroclor-1268 [1]	ND	0.97	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 0:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/12/17 0:25
Decachlorobiphenyl [2]	94.7	30-150		8/12/17 0:25
Tetrachloro-m-xylene [1]	95.5	30-150		8/12/17 0:25
Tetrachloro-m-xylene [2]	98.7	30-150		8/12/17 0:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-20 Sampled: 7/31/2017 13:20

Sample ID: 17G1438-10

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1221 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1232 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1242 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1248 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1254 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1260 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1262 [1]	ND	0.78	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 0:43	KAL
Aroclor-1268 [1]	ND	0.78	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 0:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/12/17 0:43
Decachlorobiphenyl [2]	97.3	30-150		8/12/17 0:43
Tetrachloro-m-xylene [1]	98.5	30-150		8/12/17 0:43
Tetrachloro-m-xylene [2]	102	30-150		8/12/17 0:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-Dup-1 Sampled: 7/31/2017 10:15

Sample ID: 17G1438-11

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1221 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1232 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1242 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1248 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1254 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1260 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1262 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 1:51	KAL
Aroclor-1268 [1]	ND	0.79	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 1:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.7	30-150		8/12/17 1:51
Decachlorobiphenyl [2]	91.3	30-150		8/12/17 1:51
Tetrachloro-m-xylene [1]	89.8	30-150		8/12/17 1:51
Tetrachloro-m-xylene [2]	95.0	30-150		8/12/17 1:51

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-21 Sampled: 7/31/2017 13:25

Sample ID: 17G1438-12

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1221 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1232 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1242 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1248 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1254 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1260 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1262 [1]	ND	0.79	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:09	KAL
Aroclor-1268 [1]	ND	0.79	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 2:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		8/12/17 2:09
Decachlorobiphenyl [2]	91.4	30-150		8/12/17 2:09
Tetrachloro-m-xylene [1]	90.4	30-150		8/12/17 2:09
Tetrachloro-m-xylene [2]	94.2	30-150		8/12/17 2:09

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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-22 Sampled: 7/31/2017 13:30

Sample ID: 17G1438-13

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1221 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1232 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1242 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1248 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1254 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1260 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1262 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:27	KAL
Aroclor-1268 [1]	ND	0.75	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 2:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/12/17 2:27
Decachlorobiphenyl [2]	101	30-150		8/12/17 2:27
Tetrachloro-m-xylene [1]	103	30-150		8/12/17 2:27
Tetrachloro-m-xylene [2]	106	30-150		8/12/17 2:27

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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: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-23 Sampled: 7/31/2017 13:35

Sample ID: 17G1438-14

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1221 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1232 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1242 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1248 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1254 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1260 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1262 [1]	ND	0.77	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 2:45	KAL
Aroclor-1268 [1]	ND	0.77	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 2:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		8/12/17 2:45
Decachlorobiphenyl [2]	77.8	30-150		8/12/17 2:45
Tetrachloro-m-xylene [1]	77.1	30-150		8/12/17 2:45
Tetrachloro-m-xylene [2]	80.9	30-150		8/12/17 2:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-24 Sampled: 7/31/2017 13:40

Sample ID: 17G1438-15

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1221 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1232 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1242 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1248 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1254 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1260 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1262 [1]	ND	0.75	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:03	KAL
Aroclor-1268 [1]	ND	0.75	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 3:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/12/17 3:03
Decachlorobiphenyl [2]	93.8	30-150		8/12/17 3:03
Tetrachloro-m-xylene [1]	89.1	30-150		8/12/17 3:03
Tetrachloro-m-xylene [2]	94.7	30-150		8/12/17 3:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-25 Sampled: 7/31/2017 14:30

Sample ID: 17G1438-16

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1221 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1232 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1242 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1248 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1254 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1260 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1262 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:21	KAL
Aroclor-1268 [1]	ND	0.90	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 3:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/12/17 3:21
Decachlorobiphenyl [2]	102	30-150		8/12/17 3:21
Tetrachloro-m-xylene [1]	103	30-150		8/12/17 3:21
Tetrachloro-m-xylene [2]	107	30-150		8/12/17 3:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: WS-AOC-12W-AS-26 Sampled: 7/31/2017 14:35

Sample ID: 17G1438-17

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/8/17	8/12/17 3:39	KAL
Aroclor-1268 [1]	ND	0.96	mg/Kg	10	V-20	SW-846 8082A	8/8/17	8/12/17 3:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/12/17 3:39
Decachlorobiphenyl [2]	103	30-150		8/12/17 3:39
Tetrachloro-m-xylene [1]	89.7	30-150		8/12/17 3:39
Tetrachloro-m-xylene [2]	108	30-150		8/12/17 3:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1438

Date Received: 7/31/2017

Field Sample #: EB-22 Sampled: 7/31/2017 15:15

Sample ID: 17G1438-18

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 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1221 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1232 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1242 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1248 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1254 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1260 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1262 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL
Aroclor-1268 [2]	ND	0.19	µg/L	1		SW-846 8082A	8/3/17	8/7/17 15:56	KAL

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	**24.8**	*	30-150	S-12	8/7/17 15:56
Decachlorobiphenyl [2]	30.5		30-150		8/7/17 15:56
Tetrachloro-m-xylene [1]	87.9		30-150		8/7/17 15:56
Tetrachloro-m-xylene [2]	79.0		30-150		8/7/17 15:56

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1438-01 [WS-AOC-12W-AS-11]	B183608	2.16	10.0	08/08/17
17G1438-02 [WS-AOC-12W-AS-12]	B183608	2.05	10.0	08/08/17
17G1438-03 [WS-AOC-12W-AS-13]	B183608	2.59	10.0	08/08/17
17G1438-04 [WS-AOC-12W-AS-14]	B183608	2.77	10.0	08/08/17
17G1438-05 [WS-AOC-12W-AS-15]	B183608	2.69	10.0	08/08/17
17G1438-06 [WS-AOC-12W-AS-16]	B183608	2.05	10.0	08/08/17
17G1438-07 [WS-AOC-12W-AS-17]	B183608	2.47	10.0	08/08/17
17G1438-08 [WS-AOC-12W-AS-18]	B183608	2.95	10.0	08/08/17
17G1438-09 [WS-AOC-12W-AS-19]	B183608	2.07	10.0	08/08/17
17G1438-10 [WS-AOC-12W-AS-20]	B183608	2.58	10.0	08/08/17
17G1438-11 [WS-AOC-12W-AS-Dup-1]	B183608	2.52	10.0	08/08/17
17G1438-12 [WS-AOC-12W-AS-21]	B183608	2.54	10.0	08/08/17
17G1438-13 [WS-AOC-12W-AS-22]	B183608	2.68	10.0	08/08/17
17G1438-14 [WS-AOC-12W-AS-23]	B183608	2.61	10.0	08/08/17
17G1438-15 [WS-AOC-12W-AS-24]	B183608	2.68	10.0	08/08/17
17G1438-16 [WS-AOC-12W-AS-25]	B183608	2.22	10.0	08/08/17
17G1438-17 [WS-AOC-12W-AS-26]	B183608	2.08	10.0	08/08/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G1438-18 [EB-22]	B183192	990	9.50	08/03/17

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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 B183192 - SW-846 3510C										
Blank (B183192-BLK1)				Prepared & Analyzed: 08/03/17						
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	*2.15*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.31*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.89*		µg/L	2.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.98*		µg/L	2.00		99.2	30-150			
LCS (B183192-BS1)				Prepared & Analyzed: 08/03/17						
Aroclor-1016	0.55	0.20	µg/L	0.500		110	40-140			
Aroclor-1016 [2C]	0.64	0.20	µg/L	0.500		128	40-140			
Aroclor-1260	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260 [2C]	0.61	0.20	µg/L	0.500		121	40-140			
Surrogate: Decachlorobiphenyl	*2.16*		µg/L	2.00		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.33*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.00*		µg/L	2.00		100	30-150			
LCS Dup (B183192-BSD1)				Prepared & Analyzed: 08/03/17						
Aroclor-1016	0.58	0.20	µg/L	0.500		115	40-140	4.87	20	
Aroclor-1016 [2C]	0.68	0.20	µg/L	0.500		137	40-140	6.39	20	
Aroclor-1260	0.53	0.20	µg/L	0.500		105	40-140	1.89	20	
Aroclor-1260 [2C]	0.64	0.20	µg/L	0.500		129	40-140	6.02	20	
Surrogate: Decachlorobiphenyl	*2.14*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.32*		µg/L	2.00		116	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.99*		µg/L	2.00		99.6	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 B183608 - SW-846 3540C										
Blank (B183608-BLK1)				Prepared: 08/08/17 Analyzed: 08/10/17						
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	*0.958*		mg/Kg	1.00		95.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.999*		mg/Kg	1.00		99.9	30-150			
LCS (B183608-BS1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		94.2	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		105	40-140			
Aroclor-1260	0.85	0.10	mg/Kg	1.00		84.7	40-140			
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.4	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.10*		mg/Kg	1.00		110	30-150			
Surrogate: Tetrachloro-m-xylene	*0.991*		mg/Kg	1.00		99.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.10*		mg/Kg	1.00		110	30-150			
LCS Dup (B183608-BSD1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Aroclor-1016	0.89	0.10	mg/Kg	1.00		89.4	40-140	5.25	30	
Aroclor-1016 [2C]	0.95	0.10	mg/Kg	1.00		95.4	40-140	9.56	30	
Aroclor-1260	0.79	0.10	mg/Kg	1.00		79.5	40-140	6.32	30	
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.4	40-140	7.12	30	
Surrogate: Decachlorobiphenyl	*0.953*		mg/Kg	1.00		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.998*		mg/Kg	1.00		99.8	30-150			

con-test® ANALYTICAL LABORATORY

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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 B183608 - SW-846 3540C											
Matrix Spike (B183608-MS1)		**Source: 17G1438-12**		Prepared: 08/08/17 Analyzed: 08/12/17							
Aroclor-1016	1.1	0.72	mg/Kg	0.719	ND	**150**	*	40-140			
Aroclor-1016 [2C]	0.87	0.72	mg/Kg	0.719	ND	121		40-140			
Aroclor-1260	0.74	0.72	mg/Kg	0.719	ND	103		40-140			
Aroclor-1260 [2C]	0.77	0.72	mg/Kg	0.719	ND	107		40-140			
Surrogate: Decachlorobiphenyl	*0.786*		mg/Kg	0.719		109		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.753*		mg/Kg	0.719		105		30-150			
Surrogate: Tetrachloro-m-xylene	*0.758*		mg/Kg	0.719		105		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.775*		mg/Kg	0.719		108		30-150			
Matrix Spike Dup (B183608-MSD1)		**Source: 17G1438-12**		Prepared: 08/08/17 Analyzed: 08/12/17							
Aroclor-1016	1.1	0.74	mg/Kg	0.735	ND	**145**	*	40-140	1.61	50	
Aroclor-1016 [2C]	0.86	0.74	mg/Kg	0.735	ND	117		40-140	1.52	50	
Aroclor-1260	0.72	0.74	mg/Kg	0.735	ND	97.3		40-140	3.12	50	
Aroclor-1260 [2C]	0.75	0.74	mg/Kg	0.735	ND	102		40-140	2.36	50	
Surrogate: Decachlorobiphenyl	*0.759*		mg/Kg	0.735		103		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.732*		mg/Kg	0.735		99.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.744*		mg/Kg	0.735		101		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.758*		mg/Kg	0.735		103		30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183192-BS1 Date(s) Analyzed 08/03/2017 08/03/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	0.55	
	2	0.000	0.000	0.000	0.64	15.1
Aroclor-1260	1	0.000	0.000	0.000	0.52	
	2	0.000	0.000	0.000	0.61	15.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183192-BSD1 Date(s) Analyzed 08/03/2017 08/03/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	0.58	
	2	0.000	0.000	0.000	0.68	15.9
Aroclor-1260	1	0.000	0.000	0.000	0.53	
	2	0.000	0.000	0.000	0.64	18.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183608-BS1

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-1016	1	0.000	0.000	0.000	0.94	
	2	0.000	0.000	0.000	1.0	6.2
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.87	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183608-BSD1 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-1016	1	0.000	0.000	0.000	0.89	
	2	0.000	0.000	0.000	0.95	6.5
Aroclor-1260	1	0.000	0.000	0.000	0.79	
	2	0.000	0.000	0.000	0.81	1.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183608-MS1 Date(s) Analyzed 08/12/2017 08/12/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	1.1	
	2	0.000	0.000	0.000	0.87	23.4
Aroclor-1260	1	0.000	0.000	0.000	0.74	
	2	0.000	0.000	0.000	0.77	4.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183608-MSD1 Date(s) Analyzed 08/12/2017 08/12/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	1.1	
	2	0.000	0.000	0.000	0.86	24.5
Aroclor-1260	1	0.000	0.000	0.000	0.72	
	2	0.000	0.000	0.000	0.75	4.1

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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.
DL-03	Elevated reporting limit due to matrix.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.
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
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
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

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

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

1761438

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:
Address: 273 Dividend Road, 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 Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: Nicholas Ames

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.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	PCB w/ Soxhlet Extraction												# of Containers	[2] Preservation Code	[3] Container Code
								I													I	A
1	WS-AOC-12W-AS-11	7/31/17	1145		X	O		X														
2	WS-AOC-12W-AS-12	↓	1150		↓	↓		↓														
3	WS-AOC-12W-AS-13		1155																			
4	WS-AOC-12W-AS-14		1240																			
5	WS-AOC-12W-AS-15		1245																			
6	WS-AOC-12W-AS-16		1255																			
7	WS-AOC-12W-AS-17		1300																			
8	WS-AOC-12W-AS-18		1310																			
9	WS-AOC-12W-AS-19		1315																			
10	WS-AOC-12W-AS-20	↓	1320		↓	↓		↓														

Comments:

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
SL = Sludge
SOL = Solid
O = Other (please define) Asphalt

[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: 7/31/17 1520
Received by: (signature)	Date/Time: 7/31/17 15:40
Relinquished by: (signature)	Date/Time: 7/31/17 5:20
Received by: (signature)	Date/Time: 7/31/17 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RESPEX
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP, LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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Doc # 381 Rev 1_03242017

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: beeler-m@weinc.com
Fax To #:

Company Name:
Address: 273 Dividend Road Rocky Hill CT
Phone: 860-513-1423
Project Name: English Station
Project Location: 51 Grand Ave, New Haven CT
Project Number: 2120495
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: Nicholas Ames

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	PCB w/ Soxhlet extraction	# of Containers	Preservation Code	Container Code
11	WS-AOC-12W-AS-Dup1	7/31/17	-		X	O		X			
12	WS-AOC-12W-AS-21	↓	1325		↓	↓		↓			
13	WS-AOC-12W-AS-22		1330								
14	WS-AOC-12W-AS-23		1335								
15	WS-AOC-12W-AS-24		1340								
16	WS-AOC-12W-AS-25		1430								
17	WS-AOC-12W-AS-26		1435			↓					
18	EB-~~23~~	↓	1515		✓	DI		✓			
19											

Comments:

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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SL = Sludge
SOL = Solid
O = Other (please define) Asphalt

[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: 7/31/17 1540
Received by: (signature) 7/31/17	Date/Time: 1540
Relinquished by: (signature) 7/31/17	Date/Time: 5:20
Received by: (signature) 7/31/17	Date/Time: 1720
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 7/31/17 Time 1720

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 - 2.7, 4.0

Were samples within Temperature? 2-6°C T 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.	2	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	19
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: 17G1438

Laboratory Sample ID(s):

17G1438-01 thru 17G1438-18

Sample Date(s):

07/31/2017

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:** **08/14/17**

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 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: 17H0062

Enclosed are results of analyses for samples received by the laboratory on August 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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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: 17H0062

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-12W-AS-27	17H0062-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-28	17H0062-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-29	17H0062-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-30	17H0062-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-31	17H0062-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-32	17H0062-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-33	17H0062-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-34	17H0062-08	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-47	17H0062-09	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-48	17H0062-10	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-49	17H0062-11	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-51	17H0062-12	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-52	17H0062-13	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-53	17H0062-14	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-54	17H0062-15	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-55	17H0062-16	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-56	17H0062-17	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-57	17H0062-18	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-Dup2	17H0062-19	Product/Solid		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 8082A

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1016
B184054-BS1, B184054-BSD1

Aroclor-1260
B184054-BS1, B184054-BSD1

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: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-27 Sampled: 8/1/2017 08:25

Sample ID: 17H0062-01

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.9	30-150		8/16/17 16:42
Decachlorobiphenyl [2]	70.1	30-150		8/16/17 16:42
Tetrachloro-m-xylene [1]	73.8	30-150		8/16/17 16:42
Tetrachloro-m-xylene [2]	77.2	30-150		8/16/17 16:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-28 Sampled: 8/1/2017 08:30

Sample ID: 17H0062-02

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 16:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.1	30-150		8/16/17 16:54
Decachlorobiphenyl [2]	80.1	30-150		8/16/17 16:54
Tetrachloro-m-xylene [1]	88.0	30-150		8/16/17 16:54
Tetrachloro-m-xylene [2]	94.2	30-150		8/16/17 16:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-29 Sampled: 8/1/2017 08:35

Sample ID: 17H0062-03

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.5	30-150		8/16/17 17:07
Decachlorobiphenyl [2]	56.5	30-150		8/16/17 17:07
Tetrachloro-m-xylene [1]	76.9	30-150		8/16/17 17:07
Tetrachloro-m-xylene [2]	79.6	30-150		8/16/17 17:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-30 Sampled: 8/1/2017 08:40

Sample ID: 17H0062-04

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		8/16/17 17:19
Decachlorobiphenyl [2]	74.6	30-150		8/16/17 17:19
Tetrachloro-m-xylene [1]	89.0	30-150		8/16/17 17:19
Tetrachloro-m-xylene [2]	92.9	30-150		8/16/17 17:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-31 Sampled: 8/1/2017 08:50

Sample ID: 17H0062-05

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.9	30-150		8/16/17 17:33
Decachlorobiphenyl [2]	71.8	30-150		8/16/17 17:33
Tetrachloro-m-xylene [1]	94.1	30-150		8/16/17 17:33
Tetrachloro-m-xylene [2]	99.2	30-150		8/16/17 17:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-32 Sampled: 8/1/2017 08:55

Sample ID: 17H0062-06

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.4	30-150		8/16/17 17:46
Decachlorobiphenyl [2]	65.8	30-150		8/16/17 17:46
Tetrachloro-m-xylene [1]	80.7	30-150		8/16/17 17:46
Tetrachloro-m-xylene [2]	83.4	30-150		8/16/17 17:46

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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: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-33 Sampled: 8/1/2017 09:00

Sample ID: 17H0062-07

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 17:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.9	30-150		8/16/17 17:59
Decachlorobiphenyl [2]	62.1	30-150		8/16/17 17:59
Tetrachloro-m-xylene [1]	84.5	30-150		8/16/17 17:59
Tetrachloro-m-xylene [2]	87.6	30-150		8/16/17 17:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-34 Sampled: 8/1/2017 09:05

Sample ID: 17H0062-08

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:11	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.9	30-150		8/16/17 18:11
Decachlorobiphenyl [2]	66.2	30-150		8/16/17 18:11
Tetrachloro-m-xylene [1]	90.9	30-150		8/16/17 18:11
Tetrachloro-m-xylene [2]	95.5	30-150		8/16/17 18:11

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-47 Sampled: 8/1/2017 09:45

Sample ID: 17H0062-09

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.2	30-150		8/16/17 18:24
Decachlorobiphenyl [2]	62.6	30-150		8/16/17 18:24
Tetrachloro-m-xylene [1]	84.5	30-150		8/16/17 18:24
Tetrachloro-m-xylene [2]	88.6	30-150		8/16/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-48 Sampled: 8/1/2017 09:50

Sample ID: 17H0062-10

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 18:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	44.3	30-150		8/16/17 18:37
Decachlorobiphenyl [2]	51.9	30-150		8/16/17 18:37
Tetrachloro-m-xylene [1]	74.5	30-150		8/16/17 18:37
Tetrachloro-m-xylene [2]	76.7	30-150		8/16/17 18:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-49 Sampled: 8/1/2017 09:55

Sample ID: 17H0062-11

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.2	30-150		8/16/17 20:28
Decachlorobiphenyl [2]	74.5	30-150		8/16/17 20:28
Tetrachloro-m-xylene [1]	90.1	30-150		8/16/17 20:28
Tetrachloro-m-xylene [2]	95.0	30-150		8/16/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-51 Sampled: 8/1/2017 10:10

Sample ID: 17H0062-12

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/16/17 20:40
Decachlorobiphenyl [2]	66.9	30-150		8/16/17 20:40
Tetrachloro-m-xylene [1]	89.8	30-150		8/16/17 20:40
Tetrachloro-m-xylene [2]	95.0	30-150		8/16/17 20:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-52 Sampled: 8/1/2017 10:15

Sample ID: 17H0062-13

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.9	30-150		8/16/17 20:53
Decachlorobiphenyl [2]	75.2	30-150		8/16/17 20:53
Tetrachloro-m-xylene [1]	95.0	30-150		8/16/17 20:53
Tetrachloro-m-xylene [2]	99.5	30-150		8/16/17 20:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-53 Sampled: 8/1/2017 10:20

Sample ID: 17H0062-14

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.9	30-150		8/16/17 21:06
Decachlorobiphenyl [2]	66.4	30-150		8/16/17 21:06
Tetrachloro-m-xylene [1]	90.6	30-150		8/16/17 21:06
Tetrachloro-m-xylene [2]	95.0	30-150		8/16/17 21:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-54 Sampled: 8/1/2017 10:35

Sample ID: 17H0062-15

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1242 [1]	0.88	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.8	30-150		8/16/17 21:18
Decachlorobiphenyl [2]	61.2	30-150		8/16/17 21:18
Tetrachloro-m-xylene [1]	91.1	30-150		8/16/17 21:18
Tetrachloro-m-xylene [2]	94.6	30-150		8/16/17 21:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-55 Sampled: 8/1/2017 10:45

Sample ID: 17H0062-16

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.1	30-150		8/16/17 21:31
Decachlorobiphenyl [2]	71.2	30-150		8/16/17 21:31
Tetrachloro-m-xylene [1]	89.9	30-150		8/16/17 21:31
Tetrachloro-m-xylene [2]	94.8	30-150		8/16/17 21:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-56 Sampled: 8/1/2017 11:20

Sample ID: 17H0062-17

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		8/16/17 21:43
Decachlorobiphenyl [2]	76.0	30-150		8/16/17 21:43
Tetrachloro-m-xylene [1]	93.3	30-150		8/16/17 21:43
Tetrachloro-m-xylene [2]	99.4	30-150		8/16/17 21:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-57 Sampled: 8/1/2017 11:25

Sample ID: 17H0062-18

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 21:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		8/16/17 21:56
Decachlorobiphenyl [2]	64.7	30-150		8/16/17 21:56
Tetrachloro-m-xylene [1]	87.3	30-150		8/16/17 21:56
Tetrachloro-m-xylene [2]	91.1	30-150		8/16/17 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: 17H0062

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-Dup2 Sampled: 8/1/2017 00:00

Sample ID: 17H0062-19

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1242 [1]	0.94	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/16/17 22:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.9	30-150		8/16/17 22:09
Decachlorobiphenyl [2]	67.5	30-150		8/16/17 22:09
Tetrachloro-m-xylene [1]	89.5	30-150		8/16/17 22:09
Tetrachloro-m-xylene [2]	94.6	30-150		8/16/17 22:09

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0062-01 [WS-AOC-12W-AS-27]	B184054	2.00	10.0	08/14/17
17H0062-02 [WS-AOC-12W-AS-28]	B184054	2.00	10.0	08/14/17
17H0062-03 [WS-AOC-12W-AS-29]	B184054	2.00	10.0	08/14/17
17H0062-04 [WS-AOC-12W-AS-30]	B184054	2.00	10.0	08/14/17
17H0062-05 [WS-AOC-12W-AS-31]	B184054	2.00	10.0	08/14/17
17H0062-06 [WS-AOC-12W-AS-32]	B184054	2.00	10.0	08/14/17
17H0062-07 [WS-AOC-12W-AS-33]	B184054	2.00	10.0	08/14/17
17H0062-08 [WS-AOC-12W-AS-34]	B184054	2.00	10.0	08/14/17
17H0062-09 [WS-AOC-12W-AS-47]	B184054	2.00	10.0	08/14/17
17H0062-10 [WS-AOC-12W-AS-48]	B184054	2.00	10.0	08/14/17
17H0062-11 [WS-AOC-12W-AS-49]	B184054	2.00	10.0	08/14/17
17H0062-12 [WS-AOC-12W-AS-51]	B184054	2.00	10.0	08/14/17
17H0062-13 [WS-AOC-12W-AS-52]	B184054	2.00	10.0	08/14/17
17H0062-14 [WS-AOC-12W-AS-53]	B184054	2.00	10.0	08/14/17
17H0062-15 [WS-AOC-12W-AS-54]	B184054	2.00	10.0	08/14/17
17H0062-16 [WS-AOC-12W-AS-55]	B184054	2.00	10.0	08/14/17
17H0062-17 [WS-AOC-12W-AS-56]	B184054	2.00	10.0	08/14/17
17H0062-18 [WS-AOC-12W-AS-57]	B184054	2.00	10.0	08/14/17
17H0062-19 [WS-AOC-12W-AS-Dup2]	B184054	2.00	10.0	08/14/17

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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 B184054 - SW-846 3540C										
Blank (B184054-BLK1)				Prepared: 08/14/17 Analyzed: 08/16/17						
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	*1.17*		mg/Kg	1.00		117	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.885*		mg/Kg	1.00		88.5	30-150			
LCS (B184054-BS1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.98	0.10	mg/Kg	1.00		98.5	40-140			V-06
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		92.1	40-140			
Aroclor-1260	0.93	0.10	mg/Kg	1.00		93.2	40-140			V-06
Aroclor-1260 [2C]	0.84	0.10	mg/Kg	1.00		83.6	40-140			
Surrogate: Decachlorobiphenyl	*1.18*		mg/Kg	1.00		118	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.08*		mg/Kg	1.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.884*		mg/Kg	1.00		88.4	30-150			
LCS Dup (B184054-BSD1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		94.3	40-140	4.36	30	V-06
Aroclor-1016 [2C]	0.88	0.10	mg/Kg	1.00		87.9	40-140	4.68	30	
Aroclor-1260	0.90	0.10	mg/Kg	1.00		90.3	40-140	3.10	30	V-06
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		80.4	40-140	3.92	30	
Surrogate: Decachlorobiphenyl	*1.14*		mg/Kg	1.00		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.975*		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.845*		mg/Kg	1.00		84.5	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 B184054 - SW-846 3540C										
Matrix Spike (B184054-MS1)		**Source: 17H0062-17**		Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.84	0.50	mg/Kg	1.00	ND	83.7	40-140			
Aroclor-1016 [2C]	0.89	0.50	mg/Kg	1.00	ND	88.6	40-140			
Aroclor-1260	0.67	0.50	mg/Kg	1.00	ND	66.8	40-140			
Aroclor-1260 [2C]	0.68	0.50	mg/Kg	1.00	ND	68.5	40-140			
Surrogate: Decachlorobiphenyl	*0.472*		mg/Kg	1.00		47.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.557*		mg/Kg	1.00		55.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.794*		mg/Kg	1.00		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.834*		mg/Kg	1.00		83.4	30-150			
Matrix Spike Dup (B184054-MSD1)		**Source: 17H0062-17**		Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.93	0.50	mg/Kg	1.00	ND	93.3	40-140	10.9	50	
Aroclor-1016 [2C]	0.97	0.50	mg/Kg	1.00	ND	96.8	40-140	8.80	50	
Aroclor-1260	0.73	0.50	mg/Kg	1.00	ND	72.5	40-140	8.23	50	
Aroclor-1260 [2C]	0.77	0.50	mg/Kg	1.00	ND	77.0	40-140	11.7	50	
Surrogate: Decachlorobiphenyl	*0.567*		mg/Kg	1.00		56.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.683*		mg/Kg	1.00		68.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.886*		mg/Kg	1.00		88.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.931*		mg/Kg	1.00		93.1	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-AS-54

Lab Sample ID: 17H0062-15

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1242	1	0.000	0.000	0.000	0.88	
	2	0.000	0.000	0.000	0.68	25.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-AS-Dup2

Lab Sample ID: 17H0062-19

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1242	1	0.000	0.000	0.000	0.94	
	2	0.000	0.000	0.000	0.81	14.9

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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.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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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

17H0962 17H010

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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	PCB w/ Soxhlet extraction												# of Containers	[2] Preservation Code	[3] Container Code
								1														
								A														
01	WS-AOC-12W-AS-27	8/1/17	0825		X	O		X														
02	WS-AOC-12W-AS-28	↓	0830		↓	↓		↓														
03	WS-AOC-12W-AS-29		0835																			
04	WS-AOC-12W-AS-30		0840																			
05	WS-AOC-12W-AS-31		0850																			
06	WS-AOC-12W-AS-32		0855																			
07	WS-AOC-12W-AS-33		0900																			
08	WS-AOC-12W-AS-34		0905																			
09	WS-AOC-12W-AS-47		0945																			
10	WS-AOC-12W-AS-48	↓	0950		↓	↓		↓														

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) Asphalt

[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: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.7	Date/Time: 8/1/17 1700
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

Table of Contents

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17H0002

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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 | PCB w/ soxhlet extraction | | |

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East Longmeadow, MA. 01028
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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 8/1/17 Time 1700

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 - 3.9, 2.8, 3.2
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? 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	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	21
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: 17H0062

Laboratory Sample ID(s):

17H0062-01 thru 17H0062-19

Sample Date(s):

08/01/2017

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

August 25, 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: 17H0063

Enclosed are results of analyses for samples received by the laboratory on August 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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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: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0063

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-12W-AS-58	17H0063-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-59	17H0063-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-60	17H0063-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-61	17H0063-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-62	17H0063-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-63	17H0063-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-64	17H0063-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-65	17H0063-08	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-66	17H0063-09	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-67	17H0063-10	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-68	17H0063-11	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-69	17H0063-12	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-71	17H0063-13	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-72	17H0063-14	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-73	17H0063-15	Product/Solid		SW-846 8082A	
WS-AOC-12W-AS-Dup3	17H0063-16	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-113	17H0063-17	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-114	17H0063-18	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-115	17H0063-19	Product/Solid		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.

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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-58 Sampled: 8/1/2017 11:30

Sample ID: 17H0063-01

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 14:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.5	30-150		8/24/17 14:53
Decachlorobiphenyl [2]	87.9	30-150		8/24/17 14:53
Tetrachloro-m-xylene [1]	98.2	30-150		8/24/17 14:53
Tetrachloro-m-xylene [2]	98.0	30-150		8/24/17 14:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-59 Sampled: 8/1/2017 11:33

Sample ID: 17H0063-02

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		8/24/17 15:10
Decachlorobiphenyl [2]	84.0	30-150		8/24/17 15:10
Tetrachloro-m-xylene [1]	98.3	30-150		8/24/17 15:10
Tetrachloro-m-xylene [2]	98.9	30-150		8/24/17 15:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-60 Sampled: 8/1/2017 11:35

Sample ID: 17H0063-03

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:28	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		8/24/17 15:28
Decachlorobiphenyl [2]	78.1	30-150		8/24/17 15:28
Tetrachloro-m-xylene [1]	88.2	30-150		8/24/17 15:28
Tetrachloro-m-xylene [2]	89.2	30-150		8/24/17 15:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-61 Sampled: 8/1/2017 11:37

Sample ID: 17H0063-04

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 15:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/24/17 15:46
Decachlorobiphenyl [2]	83.8	30-150		8/24/17 15:46
Tetrachloro-m-xylene [1]	97.5	30-150		8/24/17 15:46
Tetrachloro-m-xylene [2]	97.6	30-150		8/24/17 15:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-62 Sampled: 8/1/2017 11:40

Sample ID: 17H0063-05

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.0	30-150		8/24/17 16:03
Decachlorobiphenyl [2]	84.6	30-150		8/24/17 16:03
Tetrachloro-m-xylene [1]	95.9	30-150		8/24/17 16:03
Tetrachloro-m-xylene [2]	96.2	30-150		8/24/17 16:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-63 Sampled: 8/1/2017 11:45

Sample ID: 17H0063-06

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1248 [1]	0.75	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		8/24/17 16:21
Decachlorobiphenyl [2]	76.6	30-150		8/24/17 16:21
Tetrachloro-m-xylene [1]	92.5	30-150		8/24/17 16:21
Tetrachloro-m-xylene [2]	92.2	30-150		8/24/17 16:21

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-64 Sampled: 8/1/2017 11:47

Sample ID: 17H0063-07

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		8/24/17 16:38
Decachlorobiphenyl [2]	83.4	30-150		8/24/17 16:38
Tetrachloro-m-xylene [1]	97.6	30-150		8/24/17 16:38
Tetrachloro-m-xylene [2]	98.5	30-150		8/24/17 16:38

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-65 Sampled: 8/1/2017 11:50

Sample ID: 17H0063-08

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 16:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		8/24/17 16:56
Decachlorobiphenyl [2]	81.2	30-150		8/24/17 16:56
Tetrachloro-m-xylene [1]	91.8	30-150		8/24/17 16:56
Tetrachloro-m-xylene [2]	92.8	30-150		8/24/17 16:56

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-66 Sampled: 8/1/2017 11:56

Sample ID: 17H0063-09

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 17:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.4	30-150		8/24/17 17:14
Decachlorobiphenyl [2]	74.4	30-150		8/24/17 17:14
Tetrachloro-m-xylene [1]	87.4	30-150		8/24/17 17:14
Tetrachloro-m-xylene [2]	88.0	30-150		8/24/17 17:14

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-67 Sampled: 8/1/2017 12:00

Sample ID: 17H0063-10

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.9	30-150		8/24/17 18:19
Decachlorobiphenyl [2]	85.1	30-150		8/24/17 18:19
Tetrachloro-m-xylene [1]	101	30-150		8/24/17 18:19
Tetrachloro-m-xylene [2]	101	30-150		8/24/17 18:19

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-68 Sampled: 8/1/2017 12:05

Sample ID: 17H0063-11

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.3	30-150		8/24/17 18:37
Decachlorobiphenyl [2]	83.8	30-150		8/24/17 18:37
Tetrachloro-m-xylene [1]	98.9	30-150		8/24/17 18:37
Tetrachloro-m-xylene [2]	101	30-150		8/24/17 18:37

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-69 Sampled: 8/1/2017 12:10

Sample ID: 17H0063-12

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1248 [1]	0.56	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 18:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.9	30-150		8/24/17 18:54
Decachlorobiphenyl [2]	71.6	30-150		8/24/17 18:54
Tetrachloro-m-xylene [1]	92.5	30-150		8/24/17 18:54
Tetrachloro-m-xylene [2]	93.4	30-150		8/24/17 18:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-71 Sampled: 8/1/2017 12:15

Sample ID: 17H0063-13

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.9	30-150		8/24/17 19:12
Decachlorobiphenyl [2]	84.4	30-150		8/24/17 19:12
Tetrachloro-m-xylene [1]	103	30-150		8/24/17 19:12
Tetrachloro-m-xylene [2]	104	30-150		8/24/17 19:12

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-72 Sampled: 8/1/2017 12:20

Sample ID: 17H0063-14

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		8/24/17 19:29
Decachlorobiphenyl [2]	76.6	30-150		8/24/17 19:29
Tetrachloro-m-xylene [1]	91.5	30-150		8/24/17 19:29
Tetrachloro-m-xylene [2]	91.9	30-150		8/24/17 19:29

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-73 Sampled: 8/1/2017 12:25

Sample ID: 17H0063-15

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		8/24/17 19:47
Decachlorobiphenyl [2]	80.7	30-150		8/24/17 19:47
Tetrachloro-m-xylene [1]	100	30-150		8/24/17 19:47
Tetrachloro-m-xylene [2]	101	30-150		8/24/17 19:47

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-AS-Dup3 Sampled: 8/1/2017 00:00

Sample ID: 17H0063-16

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	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/14/17	8/24/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.5	30-150		8/24/17 20:05
Decachlorobiphenyl [2]	72.7	30-150		8/24/17 20:05
Tetrachloro-m-xylene [1]	93.0	30-150		8/24/17 20:05
Tetrachloro-m-xylene [2]	92.4	30-150		8/24/17 20:05

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-113 Sampled: 8/1/2017 14:40

Sample ID: 17H0063-17

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	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.0	30-150		8/24/17 20:23
Decachlorobiphenyl [2]	86.3	30-150		8/24/17 20:23
Tetrachloro-m-xylene [1]	83.3	30-150		8/24/17 20:23
Tetrachloro-m-xylene [2]	87.5	30-150		8/24/17 20:23

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-114 Sampled: 8/1/2017 14:45

Sample ID: 17H0063-18

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	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		8/24/17 20:41
Decachlorobiphenyl [2]	86.5	30-150		8/24/17 20:41
Tetrachloro-m-xylene [1]	79.3	30-150		8/24/17 20:41
Tetrachloro-m-xylene [2]	84.3	30-150		8/24/17 20:41

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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: 17H0063

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-115 Sampled: 8/1/2017 14:50

Sample ID: 17H0063-19

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	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/14/17	8/24/17 20:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.4	30-150		8/24/17 20:58
Decachlorobiphenyl [2]	88.2	30-150		8/24/17 20:58
Tetrachloro-m-xylene [1]	88.2	30-150		8/24/17 20:58
Tetrachloro-m-xylene [2]	94.4	30-150		8/24/17 20:58

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0063-01 [WS-AOC-12W-AS-58]	B184052	2.00	10.0	08/14/17
17H0063-02 [WS-AOC-12W-AS-59]	B184052	2.00	10.0	08/14/17
17H0063-03 [WS-AOC-12W-AS-60]	B184052	2.00	10.0	08/14/17
17H0063-04 [WS-AOC-12W-AS-61]	B184052	2.00	10.0	08/14/17
17H0063-05 [WS-AOC-12W-AS-62]	B184052	2.00	10.0	08/14/17
17H0063-06 [WS-AOC-12W-AS-63]	B184052	2.00	10.0	08/14/17
17H0063-07 [WS-AOC-12W-AS-64]	B184052	2.00	10.0	08/14/17
17H0063-08 [WS-AOC-12W-AS-65]	B184052	2.00	10.0	08/14/17
17H0063-09 [WS-AOC-12W-AS-66]	B184052	2.00	10.0	08/14/17
17H0063-10 [WS-AOC-12W-AS-67]	B184052	2.00	10.0	08/14/17
17H0063-11 [WS-AOC-12W-AS-68]	B184052	2.00	10.0	08/14/17
17H0063-12 [WS-AOC-12W-AS-69]	B184052	2.00	10.0	08/14/17
17H0063-13 [WS-AOC-12W-AS-71]	B184052	2.00	10.0	08/14/17
17H0063-14 [WS-AOC-12W-AS-72]	B184052	2.00	10.0	08/14/17
17H0063-15 [WS-AOC-12W-AS-73]	B184052	2.00	10.0	08/14/17
17H0063-16 [WS-AOC-12W-AS-Dup3]	B184052	2.00	10.0	08/14/17
17H0063-17 [WS-AOC-12W-CO-113]	B184052	2.00	10.0	08/14/17
17H0063-18 [WS-AOC-12W-CO-114]	B184052	2.00	10.0	08/14/17
17H0063-19 [WS-AOC-12W-CO-115]	B184052	2.00	10.0	08/14/17

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

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 B184052 - SW-846 3540C										
Blank (B184052-BLK1)				Prepared: 08/14/17 Analyzed: 08/24/17						
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	*0.942*		mg/Kg	1.00		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.966*		mg/Kg	1.00		96.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.765*		mg/Kg	1.00		76.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
LCS (B184052-BS1)				Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		85.1	40-140			
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00		89.0	40-140			
Aroclor-1260	0.79	0.10	mg/Kg	1.00		79.0	40-140			
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.1	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.817*		mg/Kg	1.00		81.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.853*		mg/Kg	1.00		85.3	30-150			
LCS Dup (B184052-BSD1)				Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.87	0.10	mg/Kg	1.00		86.7	40-140	1.85	30	
Aroclor-1016 [2C]	0.93	0.10	mg/Kg	1.00		92.6	40-140	3.96	30	
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.4	40-140	4.24	30	
Aroclor-1260 [2C]	0.83	0.10	mg/Kg	1.00		83.3	40-140	2.69	30	
Surrogate: Decachlorobiphenyl	*0.950*		mg/Kg	1.00		95.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.973*		mg/Kg	1.00		97.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.888*		mg/Kg	1.00		88.8	30-150			

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

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 B184052 - SW-846 3540C										
Matrix Spike (B184052-MS1)		**Source: 17H0063-13**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	1.0	0.50	mg/Kg	1.00	ND	102	40-140			
Aroclor-1016 [2C]	1.1	0.50	mg/Kg	1.00	ND	107	40-140			
Aroclor-1260	0.92	0.50	mg/Kg	1.00	ND	92.0	40-140			
Aroclor-1260 [2C]	0.91	0.50	mg/Kg	1.00	ND	91.0	40-140			
Surrogate: Decachlorobiphenyl	*0.877*		mg/Kg	1.00		87.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.996*		mg/Kg	1.00		99.6	30-150			
Matrix Spike Dup (B184052-MSD1)		**Source: 17H0063-13**		Prepared: 08/14/17 Analyzed: 08/24/17						
Aroclor-1016	0.99	0.50	mg/Kg	1.00	ND	99.4	40-140	2.98	50	
Aroclor-1016 [2C]	1.1	0.50	mg/Kg	1.00	ND	106	40-140	1.41	50	
Aroclor-1260	0.89	0.50	mg/Kg	1.00	ND	89.0	40-140	3.34	50	
Aroclor-1260 [2C]	0.90	0.50	mg/Kg	1.00	ND	89.8	40-140	1.28	50	
Surrogate: Decachlorobiphenyl	*0.833*		mg/Kg	1.00		83.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.890*		mg/Kg	1.00		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.834*		mg/Kg	1.00		83.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.845*		mg/Kg	1.00		84.5	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-AS-63

Lab Sample ID: 17H0063-06

Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	0.000	0.000	0.75	
	2	0.000	0.000	0.000	0.72	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-AS-69

Lab Sample ID: 17H0063-12

Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	0.000	0.000	0.56	
	2	0.000	0.000	0.000	0.52	7.4

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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.

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 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

17H0003

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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

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

PAH w/ Soxhlet extraction

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PAH w/ Soxhlet extraction
01	WS-AOC-12W-AS-58	8/1/17	1130		X	O		X
02	WS-AOC-12W-AS-59	↓	1133		↓	↓		↓
03	WS-AOC-12W-AS-60		1135					
04	WS-AOC-12W-AS-61		1137					
05	WS-AOC-12W-AS-62		1140					
06	WS-AOC-12W-AS-63		1145					
07	WS-AOC-12W-AS-64		1147					
08	WS-AOC-12W-AS-65		1150					
09	WS-AOC-12W-AS-66		1156					
10	WS-AOC-12W-AS-67	↓	1200		↓	↓		↓

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) Asphalt

[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: 8/1/17 525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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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con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
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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	PCB w/ Soxhlet extraction										
								1										# of Containers
								2										[2] Preservation Code
								3										[3] Container Code
11	WS-AOC-12W-AS-68	8/1/17	1205		X	O		X										
12	WS-AOC-12W-AS-69	↓	1210		↓	↓		X										
13	WS-AOC-12W-AS-71		1215					X										
14	WS-AOC-12W-AS-72		1220					X										
15	WS-AOC-12W-AS-73		1225					X										
16	WS-AOC-12W-AS-Dup3		–					X										
	~~WS-AOC12W-CO-112~~																	DS
17	WS-AOC12W-CO-113		14:40					X										
18	WS-AOC12W-CO-114		14:45					X										
19	WS-AOC12W-CO-115	↓	14:50		↓	↓		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) Asphalt

[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.

WS-AOC-12W-AS-71 is MS/MSD

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: 8/1/17 1505
Received by: (signature)	Date/Time: 8/1/17 1505
Relinquished by: (signature)	Date/Time: 8/1/17 1505
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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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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 8/1/17 Time 1700

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 - 3.9, 2.8, 3.2
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? 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	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	21
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: 17H0063

Laboratory Sample ID(s):

17H0063-01 thru 17H0063-19

Sample Date(s):

08/01/2017

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:** **08/25/17**

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 25, 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: 17H0064

Enclosed are results of analyses for samples received by the laboratory on August 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: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0064

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-12W-CO-116	17H0064-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-117	17H0064-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-118	17H0064-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-119	17H0064-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-120	17H0064-05	Product/Solid		SW-846 8082A	
WS-AOC9-SO-DUP-39	17H0064-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC3-SO-DUP-40	17H0064-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 7471B	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC9-SO-DUP-41	17H0064-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-42	17H0064-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC9-SO-DUP-43	17H0064-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC9-SO-DUP-4	17H0064-11	Soil		SM 2540G	
				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.

con-test® ANALYTICAL LABORATORY

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

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

17H0064-10[WS-AOC9-SO-DUP-43]

SW-846 6010C-D

Qualifications:

B

Analyte is found in the associated blank as well as in the sample.

Analyte & Samples(s) Qualified:

Zinc

17H0064-07[WS-AOC3-SO-DUP-40], B183630-BLK1, B183630-BS1, B183630-BSD1

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:

Zinc

17H0064-07[WS-AOC3-SO-DUP-40]

L-10

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.

Analyte & Samples(s) Qualified:

Lead

17H0064-07[WS-AOC3-SO-DUP-40], B183630-MRL1

SW-846 8260C

Qualifications:

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

17H0064-07[WS-AOC3-SO-DUP-40], B183261-BLK1, B183261-BS1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

Fluoranthene

17H0064-10[WS-AOC9-SO-DUP-43]

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

17H0064-07[WS-AOC3-SO-DUP-40], B183689-BLK1, B183689-BS1, B183689-BSD1

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

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 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 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, 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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-116 Sampled: 8/1/2017 14:50

Sample ID: 17H0064-01

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	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		8/11/17 1:01
Decachlorobiphenyl [2]	102	30-150		8/11/17 1:01
Tetrachloro-m-xylene [1]	81.7	30-150		8/11/17 1:01
Tetrachloro-m-xylene [2]	93.8	30-150		8/11/17 1:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-117 Sampled: 8/1/2017 14:55

Sample ID: 17H0064-02

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	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.2	30-150		8/11/17 1:19
Decachlorobiphenyl [2]	107	30-150		8/11/17 1:19
Tetrachloro-m-xylene [1]	97.7	30-150		8/11/17 1:19
Tetrachloro-m-xylene [2]	109	30-150		8/11/17 1:19

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-118 Sampled: 8/1/2017 14:40

Sample ID: 17H0064-03

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	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		8/11/17 1:36
Decachlorobiphenyl [2]	106	30-150		8/11/17 1:36
Tetrachloro-m-xylene [1]	96.9	30-150		8/11/17 1:36
Tetrachloro-m-xylene [2]	109	30-150		8/11/17 1:36

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-119 Sampled: 8/1/2017 14:35

Sample ID: 17H0064-04

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	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 1:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		8/11/17 1:54
Decachlorobiphenyl [2]	99.4	30-150		8/11/17 1:54
Tetrachloro-m-xylene [1]	93.6	30-150		8/11/17 1:54
Tetrachloro-m-xylene [2]	103	30-150		8/11/17 1:54

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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC-12W-CO-120 Sampled: 8/1/2017 14:30

Sample ID: 17H0064-05

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	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/7/17	8/11/17 2:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/11/17 2:11
Decachlorobiphenyl [2]	101	30-150		8/11/17 2:11
Tetrachloro-m-xylene [1]	95.8	30-150		8/11/17 2:11
Tetrachloro-m-xylene [2]	106	30-150		8/11/17 2:11

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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-39 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-06

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	8/9/17	8/24/17 21:32	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.6	30-150		8/24/17 21:32
Decachlorobiphenyl [2]	86.2	30-150		8/24/17 21:32
Tetrachloro-m-xylene [1]	75.2	30-150		8/24/17 21:32
Tetrachloro-m-xylene [2]	79.7	30-150		8/24/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-39 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-06

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	94.7		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Acrylonitrile	ND	0.0044	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Bromomethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Carbon Disulfide	ND	0.0044	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chlorodibromomethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Chloromethane	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dibromoethane (EDB)	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3-Dichloropropane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
cis-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
trans-1,3-Dichloropropene	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2,2-Tetrachloroethane	ND	0.00073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Tetrahydrofuran	ND	0.0073	mg/Kg dry	1	V-16	SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
Vinyl Chloride	ND	0.0073	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/3/17	8/3/17 16:12	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	110	70-130		8/3/17 16:12
Toluene-d8	104	70-130		8/3/17 16:12
4-Bromofluorobenzene	101	70-130		8/3/17 16:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Aniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(a)anthracene	0.93	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(a)pyrene	0.82	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(b)fluoranthene	1.1	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(g,h,i)perylene	0.59	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Benzo(k)fluoranthene	0.43	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroethoxy)methane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroethyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-chloroisopropyl)ether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Bis(2-Ethylhexyl)phthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Bromophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Butylbenzylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Carbazole	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chloroaniline	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chloro-3-methylphenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Chloronaphthalene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Chlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Chlorophenylphenylether	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Chrysene	0.97	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dibenz(a,h)anthracene	0.18	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dibenzofuran	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Di-n-butylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3,3-Dichlorobenzidine	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Diethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dimethylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Dimethylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4,6-Dinitro-2-methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dinitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,6-Dinitrotoluene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Di-n-octylphthalate	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Fluoranthene	1.3	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorobutadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachlorocyclopentadiene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Hexachloroethane	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Indeno(1,2,3-cd)pyrene	0.57	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Isophorone	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3/4-Methylphenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Naphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
3-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Nitroaniline	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Nitrobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2-Nitrophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
4-Nitrophenol	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
N-Nitrosodiphenylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
N-Nitrosodi-n-propylamine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pentachloronitrobenzene	ND	0.35	mg/Kg dry	1	V-16	SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pentachlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Phenanthrene	0.54	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Phenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pyrene	1.4	0.17	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
Pyridine	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
1,2,4,5-Tetrachlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
1,2,4-Trichlorobenzene	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4,5-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL
2,4,6-Trichlorophenol	ND	0.35	mg/Kg dry	1		SW-846 8270D	8/9/17	8/10/17 20:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
2-Fluorophenol	60.3	30-130		8/10/17 20:59
Phenol-d6	57.4	30-130		8/10/17 20:59
Nitrobenzene-d5	68.8	30-130		8/10/17 20:59
2-Fluorobiphenyl	73.7	30-130		8/10/17 20:59
2,4,6-Tribromophenol	63.3	30-130		8/10/17 20:59
p-Terphenyl-d14	74.9	30-130		8/10/17 20:59

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.2	30-150		8/24/17 21:44
Decachlorobiphenyl [2]	90.5	30-150		8/24/17 21:44
Tetrachloro-m-xylene [1]	83.9	30-150		8/24/17 21:44
Tetrachloro-m-xylene [2]	87.4	30-150		8/24/17 21:44

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	34	10	mg/Kg dry	1		CTDEP ETPH	8/9/17	8/10/17 13:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.6	50-150		8/10/17 13:49

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Arsenic	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Barium	36	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Beryllium	0.34	0.25	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Cadmium	ND	0.25	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Chromium	8.1	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Copper	36	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Lead	27	0.74	mg/Kg dry	1	L-10	SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Mercury	0.048	0.025	mg/Kg dry	1		SW-846 7471B	8/8/17	8/10/17 11:23	SCB
Nickel	11	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Selenium	ND	4.9	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Silver	ND	0.49	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Thallium	ND	2.5	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Vanadium	16	0.99	mg/Kg dry	1		SW-846 6010C-D	8/8/17	8/9/17 17:18	QNW
Zinc	83	0.99	mg/Kg dry	1	B, B-07	SW-846 6010C-D	8/8/17	8/9/17 17:18	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC3-SO-DUP-40 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-07

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	97.6		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-41 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-08

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	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 21:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/24/17 21:56
Decachlorobiphenyl [2]	94.6	30-150		8/24/17 21:56
Tetrachloro-m-xylene [1]	91.8	30-150		8/24/17 21:56
Tetrachloro-m-xylene [2]	95.5	30-150		8/24/17 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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-41 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-08

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	95.3		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-42 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-09

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	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/24/17 22:09
Decachlorobiphenyl [2]	93.9	30-150		8/24/17 22:09
Tetrachloro-m-xylene [1]	93.7	30-150		8/24/17 22:09
Tetrachloro-m-xylene [2]	93.2	30-150		8/24/17 22:09

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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-42 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-09

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	92.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.52	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Acenaphthylene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Anthracene	1.1	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(a)anthracene	2.3	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(a)pyrene	2.2	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(b)fluoranthene	2.5	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(g,h,i)perylene	1.7	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Benzo(k)fluoranthene	0.88	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Chrysene	2.2	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Dibenz(a,h)anthracene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Fluoranthene	5.1	0.52	mg/Kg dry	2	RL-12	SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Fluorene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Indeno(1,2,3-cd)pyrene	1.4	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
2-Methylnaphthalene	ND	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Naphthalene	0.83	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Phenanthrene	3.0	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL
Pyrene	5.6	0.52	mg/Kg dry	2		SW-846 8270D	8/9/17	8/15/17 20:35	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	33.7	30-130		8/15/17 20:35
2-Fluorobiphenyl	30.9	30-130		8/15/17 20:35
p-Terphenyl-d14	37.2	30-130		8/15/17 20:35

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	380	mg/Kg dry	25		CTDEP ETPH	8/9/17	8/11/17 1:09	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/11/17 1:09

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-43 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-10

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	66.0		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-4 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-11

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	8/9/17	8/24/17 22:21	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/9/17	8/24/17 22:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		8/24/17 22:21
Decachlorobiphenyl [2]	90.2	30-150		8/24/17 22:21
Tetrachloro-m-xylene [1]	84.6	30-150		8/24/17 22:21
Tetrachloro-m-xylene [2]	91.0	30-150		8/24/17 22:21

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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: 17H0064

Date Received: 8/1/2017

Field Sample #: WS-AOC9-SO-DUP-4 Sampled: 8/1/2017 00:00

Sample ID: 17H0064-11

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	91.1		% Wt	1		SM 2540G	8/7/17	8/8/17 8:53	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
17H0064-07 [WS-AOC3-SO-DUP-40]	B183688	30.0	1.00	08/09/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183688	30.0	1.00	08/09/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0064-06 [WS-AOC9-SO-DUP-39]	B183482	08/07/17
17H0064-07 [WS-AOC3-SO-DUP-40]	B183482	08/07/17
17H0064-08 [WS-AOC9-SO-DUP-41]	B183482	08/07/17
17H0064-09 [WS-AOC9-SO-DUP-42]	B183482	08/07/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183482	08/07/17
17H0064-11 [WS-AOC9-SO-DUP-4]	B183482	08/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183630	1.04	50.0	08/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183537	0.603	50.0	08/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-01 [WS-AOC-12W-CO-116]	B183543	2.10	10.0	08/07/17
17H0064-02 [WS-AOC-12W-CO-117]	B183543	2.48	10.0	08/07/17
17H0064-03 [WS-AOC-12W-CO-118]	B183543	2.04	10.0	08/07/17
17H0064-04 [WS-AOC-12W-CO-119]	B183543	2.39	10.0	08/07/17
17H0064-05 [WS-AOC-12W-CO-120]	B183543	2.16	10.0	08/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-06 [WS-AOC9-SO-DUP-39]	B183729	10.0	10.0	08/09/17
17H0064-07 [WS-AOC3-SO-DUP-40]	B183729	10.0	10.0	08/09/17
17H0064-08 [WS-AOC9-SO-DUP-41]	B183729	10.0	10.0	08/09/17
17H0064-09 [WS-AOC9-SO-DUP-42]	B183729	10.0	10.0	08/09/17
17H0064-11 [WS-AOC9-SO-DUP-4]	B183729	10.0	10.0	08/09/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183261	7.02	10.0	08/03/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0064-07 [WS-AOC3-SO-DUP-40]	B183689	30.0	1.00	08/09/17
17H0064-10 [WS-AOC9-SO-DUP-43]	B183689	30.0	1.00	08/09/17

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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 B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
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 B183261 - SW-846 5035										
Blank (B183261-BLK1)				Prepared & Analyzed: 08/03/17						
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	*0.0504*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0527*		mg/Kg wet	0.0500		105	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0516*		mg/Kg wet	0.0500		103	70-130			
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
Acetone	0.185	0.10	mg/Kg wet	0.200		92.6	70-130			
Acrylonitrile	0.0258	0.0060	mg/Kg wet	0.0200		129	70-130			
Benzene	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
Bromobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.9	70-130			
Bromodichloromethane	0.0175	0.0020	mg/Kg wet	0.0200		87.4	70-130			
Bromoform	0.0161	0.0020	mg/Kg wet	0.0200		80.5	70-130			
Bromomethane	0.0193	0.010	mg/Kg wet	0.0200		96.5	70-130			
2-Butanone (MEK)	0.239	0.040	mg/Kg wet	0.200		120	70-130			
n-Butylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		93.1	70-130			
sec-Butylbenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
tert-Butylbenzene	0.0207	0.0020	mg/Kg wet	0.0200		104	70-130			
Carbon Disulfide	0.202	0.0060	mg/Kg wet	0.200		101	70-130			
Carbon Tetrachloride	0.0190	0.0020	mg/Kg wet	0.0200		95.2	70-130			
Chlorobenzene	0.0180	0.0020	mg/Kg wet	0.0200		90.0	70-130			
Chlorodibromomethane	0.0188	0.0010	mg/Kg wet	0.0200		93.9	70-130			
Chloroethane	0.0169	0.020	mg/Kg wet	0.0200		84.7	70-130			
Chloroform	0.0187	0.0040	mg/Kg wet	0.0200		93.4	70-130			
Chloromethane	0.0214	0.010	mg/Kg wet	0.0200		107	70-130			
2-Chlorotoluene	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
4-Chlorotoluene	0.0177	0.0020	mg/Kg wet	0.0200		88.4	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0188	0.0020	mg/Kg wet	0.0200		93.8	70-130			
1,2-Dibromoethane (EDB)	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
Dibromomethane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,2-Dichlorobenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,3-Dichlorobenzene	0.0190	0.0020	mg/Kg wet	0.0200		94.8	70-130			
1,4-Dichlorobenzene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
trans-1,4-Dichloro-2-butene	0.0196	0.0040	mg/Kg wet	0.0200		97.9	70-130			
Dichlorodifluoromethane (Freon 12)	0.0222	0.020	mg/Kg wet	0.0200		111	70-130			
1,1-Dichloroethane	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichloroethane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1-Dichloroethylene	0.0204	0.0040	mg/Kg wet	0.0200		102	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 B183261 - SW-846 5035										
LCS (B183261-BS1)				Prepared & Analyzed: 08/03/17						
cis-1,2-Dichloroethylene	0.0200	0.0020	mg/Kg wet	0.0200		99.9	70-130			
trans-1,2-Dichloroethylene	0.0253	0.0020	mg/Kg wet	0.0200		126	70-130			
1,2-Dichloropropane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
1,3-Dichloropropane	0.0201	0.0010	mg/Kg wet	0.0200		101	70-130			
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		92.2	70-130			
1,1-Dichloropropene	0.0185	0.0020	mg/Kg wet	0.0200		92.4	70-130			
cis-1,3-Dichloropropene	0.0190	0.0010	mg/Kg wet	0.0200		94.9	70-130			
trans-1,3-Dichloropropene	0.0179	0.0010	mg/Kg wet	0.0200		89.4	70-130			
Ethylbenzene	0.0186	0.0020	mg/Kg wet	0.0200		92.9	70-130			
Hexachlorobutadiene	0.0205	0.0020	mg/Kg wet	0.0200		103	70-130			
2-Hexanone (MBK)	0.229	0.020	mg/Kg wet	0.200		114	70-130			
Isopropylbenzene (Cumene)	0.0193	0.0020	mg/Kg wet	0.0200		96.5	70-130			
p-Isopropyltoluene (p-Cymene)	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0186	0.0040	mg/Kg wet	0.0200		93.1	70-130			
Methylene Chloride	0.0233	0.020	mg/Kg wet	0.0200		117	70-130			
4-Methyl-2-pentanone (MIBK)	0.233	0.020	mg/Kg wet	0.200		116	70-130			
Naphthalene	0.0162	0.0040	mg/Kg wet	0.0200		80.9	70-130			
n-Propylbenzene	0.0184	0.0020	mg/Kg wet	0.0200		92.1	70-130			
Styrene	0.0178	0.0020	mg/Kg wet	0.0200		89.0	70-130			
1,1,1,2-Tetrachloroethane	0.0182	0.0020	mg/Kg wet	0.0200		91.2	70-130			
1,1,2,2-Tetrachloroethane	0.0169	0.0010	mg/Kg wet	0.0200		84.5	70-130			
Tetrachloroethylene	0.0213	0.0020	mg/Kg wet	0.0200		107	70-130			
Tetrahydrofuran	0.0183	0.010	mg/Kg wet	0.0200		91.6	70-130			V-16
Toluene	0.0199	0.0020	mg/Kg wet	0.0200		99.5	70-130			
1,2,3-Trichlorobenzene	0.0168	0.0020	mg/Kg wet	0.0200		83.8	70-130			
1,2,4-Trichlorobenzene	0.0182	0.0020	mg/Kg wet	0.0200		90.8	70-130			
1,1,1-Trichloroethane	0.0213	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloroethane	0.0187	0.0020	mg/Kg wet	0.0200		93.4	70-130			
Trichloroethylene	0.0203	0.0020	mg/Kg wet	0.0200		101	70-130			
Trichlorofluoromethane (Freon 11)	0.0231	0.010	mg/Kg wet	0.0200		116	70-130			
1,2,3-Trichloropropane	0.0196	0.0020	mg/Kg wet	0.0200		98.0	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0224	0.010	mg/Kg wet	0.0200		112	70-130			
1,2,4-Trimethylbenzene	0.0198	0.0020	mg/Kg wet	0.0200		99.0	70-130			
1,3,5-Trimethylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Vinyl Chloride	0.0188	0.010	mg/Kg wet	0.0200		93.8	70-130			
m+p Xylene	0.0376	0.0040	mg/Kg wet	0.0400		94.0	70-130			
o-Xylene	0.0183	0.0020	mg/Kg wet	0.0200		91.4	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0506*		mg/Kg wet	0.0500		101	70-130			
Surrogate: Toluene-d8	*0.0531*		mg/Kg wet	0.0500		106	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0520*		mg/Kg wet	0.0500		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 B183689 - SW-846 3546										
Blank (B183689-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
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							
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							
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 B183689 - SW-846 3546											
Blank (B183689-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17							
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	*5.26*		mg/Kg wet	6.67		79.0	30-130				
Surrogate: Phenol-d6	*5.05*		mg/Kg wet	6.67		75.7	30-130				
Surrogate: Nitrobenzene-d5	*2.74*		mg/Kg wet	3.33		82.1	30-130				
Surrogate: 2-Fluorobiphenyl	*2.84*		mg/Kg wet	3.33		85.2	30-130				
Surrogate: 2,4,6-Tribromophenol	*6.74*		mg/Kg wet	6.67		101	30-130				
Surrogate: p-Terphenyl-d14	*3.47*		mg/Kg wet	3.33		104	30-130				
LCS (B183689-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Acenaphthene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140				
Acenaphthylene	1.23	0.17	mg/Kg wet	1.67		73.9	40-140				
Aniline	1.03	0.34	mg/Kg wet	1.67		61.8	40-140				†
Anthracene	1.29	0.17	mg/Kg wet	1.67		77.6	40-140				
Benzo(a)anthracene	1.35	0.17	mg/Kg wet	1.67		80.8	40-140				
Benzo(a)pyrene	1.36	0.17	mg/Kg wet	1.67		81.7	40-140				
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140				
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140				
Benzo(k)fluoranthene	1.29	0.17	mg/Kg wet	1.67		77.1	40-140				
Bis(2-chloroethoxy)methane	1.27	0.34	mg/Kg wet	1.67		76.1	40-140				
Bis(2-chloroethyl)ether	1.08	0.34	mg/Kg wet	1.67		65.1	40-140				
Bis(2-chloroisopropyl)ether	1.10	0.34	mg/Kg wet	1.67		65.9	40-140				
Bis(2-Ethylhexyl)phthalate	1.55	0.34	mg/Kg wet	1.67		93.2	40-140				
4-Bromophenylphenylether	1.40	0.34	mg/Kg wet	1.67		83.7	40-140				
Butylbenzylphthalate	1.48	0.34	mg/Kg wet	1.67		88.7	40-140				
Carbazole	1.25	0.17	mg/Kg wet	1.67		75.2	40-140				
4-Chloroaniline	0.988	0.66	mg/Kg wet	1.67		59.3	40-140				†
4-Chloro-3-methylphenol	1.35	0.66	mg/Kg wet	1.67		81.0	30-130				
2-Chloronaphthalene	1.04	0.34	mg/Kg wet	1.67		62.3	40-140				
2-Chlorophenol	1.17	0.34	mg/Kg wet	1.67		70.1	30-130				
4-Chlorophenylphenylether	1.36	0.34	mg/Kg wet	1.67		81.6	40-140				
Chrysene	1.34	0.17	mg/Kg wet	1.67		80.2	40-140				
Dibenz(a,h)anthracene	1.58	0.17	mg/Kg wet	1.67		94.6	40-140				
Dibenzofuran	1.31	0.34	mg/Kg wet	1.67		78.8	40-140				
Di-n-butylphthalate	1.34	0.34	mg/Kg wet	1.67		80.7	40-140				
3,3-Dichlorobenzidine	0.978	0.17	mg/Kg wet	1.67		58.7	40-140				†
2,4-Dichlorophenol	1.29	0.34	mg/Kg wet	1.67		77.4	30-130				
Diethylphthalate	1.40	0.34	mg/Kg wet	1.67		84.1	40-140				
2,4-Dimethylphenol	1.28	0.34	mg/Kg wet	1.67		76.9	30-130				
Dimethylphthalate	1.34	0.34	mg/Kg wet	1.67		80.4	40-140				
4,6-Dinitro-2-methylphenol	1.07	0.34	mg/Kg wet	1.67		64.5	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 B183689 - SW-846 3546											
LCS (B183689-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17							
2,4-Dinitrophenol	0.782	0.66	mg/Kg wet	1.67		46.9	30-130				
2,4-Dinitrotoluene	1.22	0.34	mg/Kg wet	1.67		73.2	40-140				
2,6-Dinitrotoluene	1.32	0.34	mg/Kg wet	1.67		79.3	40-140				
Di-n-octylphthalate	1.41	0.34	mg/Kg wet	1.67		84.5	40-140				
Fluoranthene	1.27	0.17	mg/Kg wet	1.67		75.9	40-140				
Fluorene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140				
Hexachlorobenzene	1.35	0.34	mg/Kg wet	1.67		81.1	40-140				
Hexachlorobutadiene	1.29	0.34	mg/Kg wet	1.67		77.5	40-140				
Hexachlorocyclopentadiene	0.856	0.34	mg/Kg wet	1.67		51.4	30-140				
Hexachloroethane	1.11	0.34	mg/Kg wet	1.67		66.8	40-140				
Indeno(1,2,3-cd)pyrene	1.55	0.17	mg/Kg wet	1.67		92.8	40-140				
Isophorone	1.27	0.34	mg/Kg wet	1.67		75.9	40-140				
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140				
2-Methylphenol	1.11	0.34	mg/Kg wet	1.67		66.7	30-130				
3/4-Methylphenol	1.13	0.34	mg/Kg wet	1.67		67.8	30-130				
Naphthalene	1.19	0.17	mg/Kg wet	1.67		71.1	40-140				
2-Nitroaniline	1.32	0.34	mg/Kg wet	1.67		79.1	40-140				
3-Nitroaniline	1.13	0.34	mg/Kg wet	1.67		67.9	40-140				†
4-Nitroaniline	1.23	0.34	mg/Kg wet	1.67		73.9	40-140				
Nitrobenzene	1.23	0.34	mg/Kg wet	1.67		73.5	40-140				
2-Nitrophenol	1.20	0.34	mg/Kg wet	1.67		72.1	30-130				
4-Nitrophenol	1.06	0.66	mg/Kg wet	1.67		63.3	10-130				
N-Nitrosodiphenylamine	1.76	0.34	mg/Kg wet	1.67		105	40-140				
N-Nitrosodi-n-propylamine	1.15	0.34	mg/Kg wet	1.67		69.2	40-140				
Pentachloronitrobenzene	1.45	0.34	mg/Kg wet	1.67		87.1	40-140			V-16	
Pentachlorophenol	0.872	0.34	mg/Kg wet	1.67		52.3	30-130				
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140				
Phenol	1.12	0.34	mg/Kg wet	1.67		67.1	20-130				
Pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140				
Pyridine	0.832	0.34	mg/Kg wet	1.67		49.9	10-140				†
1,2,4,5-Tetrachlorobenzene	1.34	0.34	mg/Kg wet	1.67		80.4	40-140				
1,2,4-Trichlorobenzene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140				
2,4,5-Trichlorophenol	1.30	0.34	mg/Kg wet	1.67		78.0	30-130				
2,4,6-Trichlorophenol	1.31	0.34	mg/Kg wet	1.67		78.8	30-130				
Surrogate: 2-Fluorophenol	*5.54*		mg/Kg wet	6.67		83.1	30-130				
Surrogate: Phenol-d6	*5.42*		mg/Kg wet	6.67		81.2	30-130				
Surrogate: Nitrobenzene-d5	*2.99*		mg/Kg wet	3.33		89.7	30-130				
Surrogate: 2-Fluorobiphenyl	*3.15*		mg/Kg wet	3.33		94.5	30-130				
Surrogate: 2,4,6-Tribromophenol	*7.51*		mg/Kg wet	6.67		113	30-130				
Surrogate: p-Terphenyl-d14	*3.40*		mg/Kg wet	3.33		102	30-130				
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17							
Acenaphthene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140	7.64	30		
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140	7.81	30		
Aniline	0.961	0.34	mg/Kg wet	1.67		57.6	40-140	6.93	50		† ‡
Anthracene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	9.53	30		
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140	8.54	30		
Benzo(a)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140	7.49	30		
Benzo(b)fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	0.515	30		
Benzo(g,h,i)perylene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140	8.76	30		
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140	9.28	30		
Bis(2-chloroethoxy)methane	1.14	0.34	mg/Kg wet	1.67		68.2	40-140	10.9	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 B183689 - SW-846 3546										
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
Bis(2-chloroethyl)ether	0.986	0.34	mg/Kg wet	1.67		59.2	40-140	9.56	30	
Bis(2-chloroisopropyl)ether	0.953	0.34	mg/Kg wet	1.67		57.2	40-140	14.3	30	
Bis(2-Ethylhexyl)phthalate	1.40	0.34	mg/Kg wet	1.67		84.2	40-140	10.1	30	
4-Bromophenylphenylether	1.29	0.34	mg/Kg wet	1.67		77.5	40-140	7.66	30	
Butylbenzylphthalate	1.32	0.34	mg/Kg wet	1.67		79.4	40-140	11.1	30	
Carbazole	1.15	0.17	mg/Kg wet	1.67		68.9	40-140	8.63	30	
4-Chloroaniline	0.936	0.66	mg/Kg wet	1.67		56.2	40-140	5.44	30	†
4-Chloro-3-methylphenol	1.22	0.66	mg/Kg wet	1.67		72.9	30-130	10.5	30	
2-Chloronaphthalene	0.961	0.34	mg/Kg wet	1.67		57.6	40-140	7.83	30	
2-Chlorophenol	1.07	0.34	mg/Kg wet	1.67		64.3	30-130	8.60	30	
4-Chlorophenylphenylether	1.28	0.34	mg/Kg wet	1.67		76.6	40-140	6.32	30	
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140	9.43	30	
Dibenz(a,h)anthracene	1.45	0.17	mg/Kg wet	1.67		86.8	40-140	8.60	30	
Dibenzofuran	1.22	0.34	mg/Kg wet	1.67		73.3	40-140	7.23	30	
Di-n-butylphthalate	1.23	0.34	mg/Kg wet	1.67		73.6	40-140	9.20	30	
3,3-Dichlorobenzidine	0.957	0.17	mg/Kg wet	1.67		57.4	40-140	2.17	30	† ‡
2,4-Dichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.2	30-130	8.29	30	
Diethylphthalate	1.29	0.34	mg/Kg wet	1.67		77.6	40-140	8.06	30	
2,4-Dimethylphenol	1.17	0.34	mg/Kg wet	1.67		70.2	30-130	9.14	30	
Dimethylphthalate	1.24	0.34	mg/Kg wet	1.67		74.1	40-140	8.08	50	
4,6-Dinitro-2-methylphenol	0.998	0.34	mg/Kg wet	1.67		59.9	30-130	7.43	50	
2,4-Dinitrophenol	0.646	0.66	mg/Kg wet	1.67		38.8	30-130	19.1	50	
2,4-Dinitrotoluene	1.11	0.34	mg/Kg wet	1.67		66.5	40-140	9.59	30	
2,6-Dinitrotoluene	1.19	0.34	mg/Kg wet	1.67		71.4	40-140	10.5	30	
Di-n-octylphthalate	1.28	0.34	mg/Kg wet	1.67		76.5	40-140	9.91	30	
Fluoranthene	1.16	0.17	mg/Kg wet	1.67		69.9	40-140	8.28	30	
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140	7.58	30	
Hexachlorobenzene	1.25	0.34	mg/Kg wet	1.67		75.0	40-140	7.89	30	
Hexachlorobutadiene	1.19	0.34	mg/Kg wet	1.67		71.2	40-140	8.50	30	
Hexachlorocyclopentadiene	0.818	0.34	mg/Kg wet	1.67		49.1	30-140	4.62	50	
Hexachloroethane	1.03	0.34	mg/Kg wet	1.67		61.6	40-140	8.16	50	
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	10.1	50	
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		83.9	40-140	10.1	30	
Isophorone	1.12	0.34	mg/Kg wet	1.67		67.1	40-140	12.4	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	10.5	30	
2-Methylphenol	0.991	0.34	mg/Kg wet	1.67		59.5	30-130	11.5	30	
3/4-Methylphenol	1.02	0.34	mg/Kg wet	1.67		61.1	30-130	10.3	30	
Naphthalene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140	9.36	30	
2-Nitroaniline	1.17	0.34	mg/Kg wet	1.67		70.3	40-140	11.8	30	
3-Nitroaniline	1.09	0.34	mg/Kg wet	1.67		65.6	40-140	3.41	30	†
4-Nitroaniline	1.10	0.34	mg/Kg wet	1.67		65.9	40-140	11.4	30	
Nitrobenzene	1.08	0.34	mg/Kg wet	1.67		64.8	40-140	12.6	30	
2-Nitrophenol	1.10	0.34	mg/Kg wet	1.67		66.0	30-130	8.81	30	
4-Nitrophenol	0.924	0.66	mg/Kg wet	1.67		55.5	10-130	13.3	50	‡
N-Nitrosodiphenylamine	1.62	0.34	mg/Kg wet	1.67		97.2	40-140	7.96	30	
N-Nitrosodi-n-propylamine	1.02	0.34	mg/Kg wet	1.67		61.3	40-140	12.0	30	
Pentachloronitrobenzene	1.40	0.34	mg/Kg wet	1.67		84.3	40-140	3.31	30	V-16
Pentachlorophenol	0.799	0.34	mg/Kg wet	1.67		47.9	30-130	8.82	50	
Phenanthrene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140	8.84	30	
Phenol	1.01	0.34	mg/Kg wet	1.67		60.4	20-130	10.5	30	
Pyrene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	9.48	30	
Pyridine	0.753	0.34	mg/Kg wet	1.67		45.2	10-140	10.0	50	†

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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 B183689 - SW-846 3546										
LCS Dup (B183689-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
1,2,4,5-Tetrachlorobenzene	1.27	0.34	mg/Kg wet	1.67		76.0	40-140	5.65	30	
1,2,4-Trichlorobenzene	1.06	0.34	mg/Kg wet	1.67		63.7	40-140	11.4	30	
2,4,5-Trichlorophenol	1.19	0.34	mg/Kg wet	1.67		71.4	30-130	8.80	30	
2,4,6-Trichlorophenol	1.23	0.34	mg/Kg wet	1.67		73.6	30-130	6.83	50	
Surrogate: 2-Fluorophenol	*5.03*		mg/Kg wet	6.67		75.4	30-130			
Surrogate: Phenol-d6	*4.86*		mg/Kg wet	6.67		72.8	30-130			
Surrogate: Nitrobenzene-d5	*2.66*		mg/Kg wet	3.33		79.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.94*		mg/Kg wet	3.33		88.1	30-130			
Surrogate: 2,4,6-Tribromophenol	*7.02*		mg/Kg wet	6.67		105	30-130			
Surrogate: p-Terphenyl-d14	*3.11*		mg/Kg wet	3.33		93.4	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 B183543 - SW-846 3540C										
Blank (B183543-BLK1)				Prepared: 08/07/17 Analyzed: 08/10/17						
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	*0.901*		mg/Kg	1.00		90.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.970*		mg/Kg	1.00		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.991*		mg/Kg	1.00		99.1	30-150			
LCS (B183543-BS1)				Prepared: 08/07/17 Analyzed: 08/10/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		99.4	40-140			
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		103	40-140			
Aroclor-1260	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Surrogate: Decachlorobiphenyl	*0.945*		mg/Kg	1.00		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	1.00		104	30-150			
LCS Dup (B183543-BSD1)				Prepared: 08/07/17 Analyzed: 08/10/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		100	40-140	0.916	30	
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		103	40-140	0.551	30	
Aroclor-1260	0.90	0.10	mg/Kg	1.00		89.7	40-140	1.34	30	
Aroclor-1260 [2C]	0.90	0.10	mg/Kg	1.00		90.4	40-140	0.890	30	
Surrogate: Decachlorobiphenyl	*0.912*		mg/Kg	1.00		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.968*		mg/Kg	1.00		96.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	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 B183543 - SW-846 3540C										
Matrix Spike (B183543-MS1)		**Source: 17H0064-01**		Prepared: 08/07/17 Analyzed: 08/11/17						
Aroclor-1016	0.78	0.085	mg/Kg	0.851	ND	91.9	40-140			
Aroclor-1016 [2C]	0.88	0.085	mg/Kg	0.851	ND	104	40-140			
Aroclor-1260	0.76	0.085	mg/Kg	0.851	ND	89.1	40-140			
Aroclor-1260 [2C]	0.80	0.085	mg/Kg	0.851	ND	93.7	40-140			
Surrogate: Decachlorobiphenyl	*0.807*		mg/Kg	0.851		94.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.884*		mg/Kg	0.851		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.686*		mg/Kg	0.851		80.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.772*		mg/Kg	0.851		90.7	30-150			
Matrix Spike Dup (B183543-MSD1)		**Source: 17H0064-01**		Prepared: 08/07/17 Analyzed: 08/11/17						
Aroclor-1016	0.74	0.082	mg/Kg	0.823	ND	89.5	40-140	5.91	50	
Aroclor-1016 [2C]	0.81	0.082	mg/Kg	0.823	ND	98.9	40-140	8.11	50	
Aroclor-1260	0.71	0.082	mg/Kg	0.823	ND	86.0	40-140	6.90	50	
Aroclor-1260 [2C]	0.74	0.082	mg/Kg	0.823	ND	90.0	40-140	7.43	50	
Surrogate: Decachlorobiphenyl	*0.764*		mg/Kg	0.823		92.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.828*		mg/Kg	0.823		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.635*		mg/Kg	0.823		77.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.712*		mg/Kg	0.823		86.5	30-150			
Batch B183729 - SW-846 3540C										
Blank (B183729-BLK1)				Prepared: 08/09/17 Analyzed: 08/24/17						
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	*0.170*		mg/Kg wet	0.200		84.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		87.0	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 B183729 - SW-846 3540C										
LCS (B183729-BS1)				Prepared: 08/09/17 Analyzed: 08/24/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.8	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.5	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140			
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.1	30-150			
LCS Dup (B183729-BSD1)				Prepared: 08/09/17 Analyzed: 08/24/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.1	40-140	2.56	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.7	40-140	2.22	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.3	40-140	4.01	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	4.10	30	
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.175*		mg/Kg wet	0.200		87.5	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 B183688 - SW-846 3546										
Blank (B183688-BLK1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.64*		mg/Kg wet	3.33		79.3	50-150			
LCS (B183688-BS1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	22.0	10	mg/Kg wet	33.3		66.1	60-120			
Surrogate: o-Terphenyl	*2.66*		mg/Kg wet	3.33		79.9	50-150			
LCS Dup (B183688-BSD1)				Prepared: 08/09/17 Analyzed: 08/10/17						
CT ETPH	22.0	10	mg/Kg wet	33.3		66.1	60-120	0.00241	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4	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 B183537 - SW-846 7471										
Blank (B183537-BLK1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	ND	0.025	mg/Kg wet							
LCS (B183537-BS1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	9.14	1.9	mg/Kg wet	9.36		97.6	73.7-126.3			
LCS Dup (B183537-BSD1)				Prepared: 08/08/17 Analyzed: 08/10/17						
Mercury	8.96	1.9	mg/Kg wet	9.36		95.7	73.7-126.3	1.95	30	
Batch B183630 - SW-846 3050B										
Blank (B183630-BLK1)				Prepared: 08/08/17 Analyzed: 08/09/17						
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	1.6	1.0	mg/Kg wet							B
LCS (B183630-BS1)				Prepared: 08/08/17 Analyzed: 08/09/17						
Antimony	71.2	5.0	mg/Kg wet	88.2		80.7	0-210.3			
Arsenic	51.9	5.0	mg/Kg wet	57.0		91.0	77.8-122.1			
Barium	107	5.0	mg/Kg wet	110		96.8	82-117.4			
Beryllium	69.6	0.50	mg/Kg wet	67.5		103	82.3-117.7			
Cadmium	78.1	0.50	mg/Kg wet	77.8		100	81.9-118.2			
Chromium	64.8	1.0	mg/Kg wet	65.0		99.7	78.7-120.6			
Copper	57.0	1.0	mg/Kg wet	56.4		101	80.4-119.6			
Lead	76.0	1.5	mg/Kg wet	85.6		88.8	82.4-117.8			
Nickel	60.1	1.0	mg/Kg wet	61.3		98.1	82.2-117.8			
Selenium	69.6	10	mg/Kg wet	78.9		88.3	77.1-122.3			
Silver	53.0	1.0	mg/Kg wet	54.2		97.7	74.3-125.4			
Thallium	164	5.0	mg/Kg wet	178		92.1	78.2-121.6			
Vanadium	49.6	2.0	mg/Kg wet	56.3		88.2	64.8-135.2			
Zinc	200	2.0	mg/Kg wet	198		101	79.7-120.8			B

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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 B183630 - SW-846 3050B											
LCS Dup (B183630-BSD1)				Prepared: 08/08/17 Analyzed: 08/09/17							
Antimony	74.8	5.0	mg/Kg wet	88.2		84.8		0-210.3	4.95	30	
Arsenic	54.3	5.0	mg/Kg wet	57.0		95.3		77.8-122.1	4.65	30	
Barium	109	5.0	mg/Kg wet	110		98.7		82-117.4	1.86	30	
Beryllium	67.3	0.50	mg/Kg wet	67.5		99.7		82.3-117.7	3.42	30	
Cadmium	83.7	0.50	mg/Kg wet	77.8		108		81.9-118.2	6.98	30	
Chromium	67.6	0.99	mg/Kg wet	65.0		104		78.7-120.6	4.33	30	
Copper	58.9	0.99	mg/Kg wet	56.4		104		80.4-119.6	3.29	30	
Lead	76.5	1.5	mg/Kg wet	85.6		89.4		82.4-117.8	0.647	30	
Nickel	63.3	0.99	mg/Kg wet	61.3		103		82.2-117.8	5.15	30	
Selenium	73.8	9.9	mg/Kg wet	78.9		93.6		77.1-122.3	5.81	30	
Silver	56.3	0.99	mg/Kg wet	54.2		104		74.3-125.4	6.04	30	
Thallium	176	5.0	mg/Kg wet	178		99.0		78.2-121.6	7.19	30	
Vanadium	52.2	2.0	mg/Kg wet	56.3		92.7		64.8-135.2	4.97	30	
Zinc	206	2.0	mg/Kg wet	198		104		79.7-120.8	3.17	30	B
MRL Check (B183630-MRL1)				Prepared: 08/08/17 Analyzed: 08/09/17							
Lead	0.993	0.74	mg/Kg wet	0.735		**135**	*	80-120			L-10

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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.
L-10	The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.
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.
V-16	Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

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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 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
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 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
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
o-Xylene	CT,NH,NY,ME
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH
Aniline	NY,NH
Anthracene	CT,NY,NH
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
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
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Dibenzofuran	CT,NY,NH
Di-n-butylphthalate	CT,NY,NH
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
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	NY,NH
Fluorene	CT,NY,NH,ME,NC,VA
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,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH
Isophorone	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
2-Methylphenol	CT,NY,NH
3/4-Methylphenol	CT,NY,NH
Naphthalene	CT,NY,NH,ME,NC,VA

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Soil	
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
Phenanthrene	CT,NY,NH,ME,NC,VA
Phenol	CT,NY,NH
Pyrene	CT,NY,NH
Pyrene	CT,NY,NH,ME,NC,VA
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

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

17H00064

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) PCB	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-A0C12W-CO-116	8/1/17	14:50		X	O		X			
02	WS-A0C12W-CO-117		14:55					X			
03	WS-A0C12W-CO-118		14:40					X			
04	WS-A0C12W-CO-119		14:35					X			
05	WS-A0C12W-CO-120		14:30					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: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1556
Relinquished by: (signature)	Date/Time: 8/1/17 5PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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 #

8/1/17 1700

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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17H0064

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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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
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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) PCB	PAH	ETPH	SVOCs	RSR 15 Metal	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
06	WS-AOC9-SO-DUP-39	8/1/17			X	S	U	X								
07	WS-AOC3-SO-DUP-40							X		X	X	X	X			
08	WS-AOC9-SO-DUP-41							X								
09	WS-AOC9-SO-DUP-42							X								
10	WS-AOC9-SO-DUP-43							X	X	X						
11	WS-AOC9-SO-DUP-44							X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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DW = Drinking Water
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SL = Sludge
O = Other (please define)

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M = Methanol
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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: 8/1/17 1525
Received by: (signature)	Date/Time: 8/1/17 1525
Relinquished by: (signature)	Date/Time: 8/1/17 3PM
Received by: (signature) 3.9	Date/Time: 8/1/17 1700
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 #

8/1/17 1700

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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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 8/1/17 Time 1700

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 - 3.9, 2.8, 3.2
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	7
Meoh-	1	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	5
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	2	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/1/17 1700	
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\A081017.SEC\A0810007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/10/17
Data File Name	A0810007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	549789	587403	-6
c - 10	1.63	570796	587403	-3
c - 12	2.35	588096	587403	0
c - 14	3.01	598274	587403	2
c - 16	3.62	610876	587403	4
c - 18	4.23	602897	587403	3
o-Terphenyl	4.51	673282	587403	
c - 20	4.84	609692	587403	4
c - 22	5.34	618889	587403	5
c - 24	5.78	575484	587403	-2
c - 26	6.17	603193	587403	3
c - 28	6.53	591414	587403	1
c - 30	6.86	587541	587403	0
c - 32	7.17	570324	587403	-3
c - 34	7.46	568452	587403	-3
c - 36	7.78	565330	587403	-4

* One compound allowed %D <= 50%

Samples

17H0066-01RE1
17H0066-02RE1

D:\HPCHEM\1\DATA\A081017\A0810006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/10/17
Data File Name	A0810006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	431989	461906	-6
c - 10	1.64	447601	461906	-3
c - 12	2.37	460504	461906	0
c - 14	3.05	469314	461906	2
c - 16	3.66	480138	461906	4
c - 18	4.29	474119	461906	3
o-Terphenyl	4.57	522769	461906	
c - 20	4.90	477615	461906	3
c - 22	5.40	480223	461906	4
c - 24	5.84	443377	461906	-4
c - 26	6.24	463794	461906	0
c - 28	6.60	458650	461906	-1
c - 30	6.93	461551	461906	0
c - 32	7.25	457112	461906	-1
c - 34	7.54	461242	461906	0
c - 36	7.90	461367	461906	0

* One compound allowed %D <= 50%

Samples

17H0058-12
17H0058-13
17H0059-06
17H0059-07
17H0059-11
17H0059-14
17H0059-17
17H0059-05
17H0058-06@5X
17H0058-08@5X
17H0058-18@5X
17H0059-03@5X
17H0064-07

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: 17H0064

Laboratory Sample ID(s):

17H0064-01 thru 17H0064-11

Sample Date(s):

08/01/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, 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:** **08/25/17**

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 21, 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: 17H0112

Enclosed are results of analyses for samples received by the laboratory on August 2, 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: 8/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0112

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-12E-AS-44	17H0112-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-33	17H0112-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-28	17H0112-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-20	17H0112-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-46	17H0112-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-32	17H0112-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-29	17H0112-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-22	17H0112-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-47	17H0112-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-34	17H0112-10	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-Dup5	17H0112-11	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-50	17H0112-12	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-36	17H0112-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-30	17H0112-14	Product/Solid		SW-846 8082A	
WS-AOC12E-AS-23	17H0112-15	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-53	17H0112-16	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-40	17H0112-17	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-26	17H0112-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-38	17H0112-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-43	17H0112-20	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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-44 Sampled: 8/2/2017 13:59

Sample ID: 17H0112-01

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/18/17 21:38
Decachlorobiphenyl [2]	109	30-150		8/18/17 21:38
Tetrachloro-m-xylene [1]	106	30-150		8/18/17 21:38
Tetrachloro-m-xylene [2]	114	30-150		8/18/17 21:38

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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-33 Sampled: 8/2/2017 14:25

Sample ID: 17H0112-02

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 21:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		8/18/17 21:56
Decachlorobiphenyl [2]	104	30-150		8/18/17 21:56
Tetrachloro-m-xylene [1]	100	30-150		8/18/17 21:56
Tetrachloro-m-xylene [2]	108	30-150		8/18/17 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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-28 Sampled: 8/2/2017 13:58

Sample ID: 17H0112-03

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		8/18/17 22:14
Decachlorobiphenyl [2]	97.1	30-150		8/18/17 22:14
Tetrachloro-m-xylene [1]	103	30-150		8/18/17 22:14
Tetrachloro-m-xylene [2]	112	30-150		8/18/17 22:14

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-20 Sampled: 8/2/2017 13:15

Sample ID: 17H0112-04

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.8	30-150		8/18/17 22:32
Decachlorobiphenyl [2]	94.3	30-150		8/18/17 22:32
Tetrachloro-m-xylene [1]	105	30-150		8/18/17 22:32
Tetrachloro-m-xylene [2]	114	30-150		8/18/17 22:32

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-46 Sampled: 8/2/2017 14:51

Sample ID: 17H0112-05

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 22:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.6	30-150		8/18/17 22:49
Decachlorobiphenyl [2]	99.3	30-150		8/18/17 22:49
Tetrachloro-m-xylene [1]	108	30-150		8/18/17 22:49
Tetrachloro-m-xylene [2]	118	30-150		8/18/17 22:49

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-32 Sampled: 8/2/2017 14:20

Sample ID: 17H0112-06

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1248 [2]	1.0	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1260 [2]	0.64	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		8/18/17 23:07
Decachlorobiphenyl [2]	93.3	30-150		8/18/17 23:07
Tetrachloro-m-xylene [1]	104	30-150		8/18/17 23:07
Tetrachloro-m-xylene [2]	113	30-150		8/18/17 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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-29 Sampled: 8/2/2017 14:00

Sample ID: 17H0112-07

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/18/17 23:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.6	30-150		8/18/17 23:25
Decachlorobiphenyl [2]	92.5	30-150		8/18/17 23:25
Tetrachloro-m-xylene [1]	106	30-150		8/18/17 23:25
Tetrachloro-m-xylene [2]	112	30-150		8/18/17 23:25

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-22 Sampled: 8/2/2017 13:32

Sample ID: 17H0112-08

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		8/19/17 0:36
Decachlorobiphenyl [2]	96.8	30-150		8/19/17 0:36
Tetrachloro-m-xylene [1]	106	30-150		8/19/17 0:36
Tetrachloro-m-xylene [2]	116	30-150		8/19/17 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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-47 Sampled: 8/2/2017 14:52

Sample ID: 17H0112-09

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 0:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		8/19/17 0:53
Decachlorobiphenyl [2]	103	30-150		8/19/17 0:53
Tetrachloro-m-xylene [1]	110	30-150		8/19/17 0:53
Tetrachloro-m-xylene [2]	119	30-150		8/19/17 0:53

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-34 Sampled: 8/2/2017 14:26

Sample ID: 17H0112-10

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:11	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		8/19/17 1:11
Decachlorobiphenyl [2]	90.8	30-150		8/19/17 1:11
Tetrachloro-m-xylene [1]	104	30-150		8/19/17 1:11
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 1:11

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-Dup5 Sampled: 8/2/2017 00:00

Sample ID: 17H0112-11

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		8/19/17 1:29
Decachlorobiphenyl [2]	88.7	30-150		8/19/17 1:29
Tetrachloro-m-xylene [1]	103	30-150		8/19/17 1:29
Tetrachloro-m-xylene [2]	110	30-150		8/19/17 1:29

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-50 Sampled: 8/2/2017 14:53

Sample ID: 17H0112-12

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 1:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/19/17 1:46
Decachlorobiphenyl [2]	95.5	30-150		8/19/17 1:46
Tetrachloro-m-xylene [1]	105	30-150		8/19/17 1:46
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 1:46

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-36 Sampled: 8/2/2017 14:33

Sample ID: 17H0112-13

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		8/19/17 2:04
Decachlorobiphenyl [2]	84.7	30-150		8/19/17 2:04
Tetrachloro-m-xylene [1]	97.6	30-150		8/19/17 2:04
Tetrachloro-m-xylene [2]	106	30-150		8/19/17 2:04

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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-30 Sampled: 8/2/2017 14:02

Sample ID: 17H0112-14

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.9	30-150		8/19/17 2:22
Decachlorobiphenyl [2]	76.1	30-150		8/19/17 2:22
Tetrachloro-m-xylene [1]	87.4	30-150		8/19/17 2:22
Tetrachloro-m-xylene [2]	97.8	30-150		8/19/17 2:22

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC12E-AS-23 Sampled: 8/2/2017 13:36

Sample ID: 17H0112-15

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.1	30-150		8/19/17 2:39
Decachlorobiphenyl [2]	88.9	30-150		8/19/17 2:39
Tetrachloro-m-xylene [1]	100	30-150		8/19/17 2:39
Tetrachloro-m-xylene [2]	110	30-150		8/19/17 2:39

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-53 Sampled: 8/2/2017 14:54

Sample ID: 17H0112-16

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 2:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.4	30-150		8/19/17 2:57
Decachlorobiphenyl [2]	90.7	30-150		8/19/17 2:57
Tetrachloro-m-xylene [1]	97.0	30-150		8/19/17 2:57
Tetrachloro-m-xylene [2]	107	30-150		8/19/17 2:57

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-40 Sampled: 8/2/2017 14:42

Sample ID: 17H0112-17

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	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1221 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1232 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1242 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1248 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1254 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1260 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1262 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG
Aroclor-1268 [1]	ND	0.48	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		8/19/17 3:15
Decachlorobiphenyl [2]	87.4	30-150		8/19/17 3:15
Tetrachloro-m-xylene [1]	102	30-150		8/19/17 3:15
Tetrachloro-m-xylene [2]	113	30-150		8/19/17 3:15

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-26 Sampled: 8/2/2017 13:40

Sample ID: 17H0112-18

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.7	30-150		8/19/17 3:32
Decachlorobiphenyl [2]	91.0	30-150		8/19/17 3:32
Tetrachloro-m-xylene [1]	105	30-150		8/19/17 3:32
Tetrachloro-m-xylene [2]	114	30-150		8/19/17 3:32

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-38 Sampled: 8/2/2017 14:35

Sample ID: 17H0112-19

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	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1221 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1232 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1242 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1248 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1254 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1260 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1262 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG
Aroclor-1268 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 3:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		8/19/17 3:50
Decachlorobiphenyl [2]	82.6	30-150		8/19/17 3:50
Tetrachloro-m-xylene [1]	95.0	30-150		8/19/17 3:50
Tetrachloro-m-xylene [2]	105	30-150		8/19/17 3:50

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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: 17H0112

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-43 Sampled: 8/2/2017 14:44

Sample ID: 17H0112-20

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	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1221 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1232 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1242 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1248 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1254 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1260 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1262 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG
Aroclor-1268 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/19/17 4:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		8/19/17 4:08
Decachlorobiphenyl [2]	94.9	30-150		8/19/17 4:08
Tetrachloro-m-xylene [1]	103	30-150		8/19/17 4:08
Tetrachloro-m-xylene [2]	112	30-150		8/19/17 4:08

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0112-01 [WS-AOC-12E-AS-44]	B183909	2.05	10.0	08/11/17
17H0112-02 [WS-AOC-12E-AS-33]	B183909	2.16	10.0	08/11/17
17H0112-03 [WS-AOC-12E-AS-28]	B183909	2.17	10.0	08/11/17
17H0112-04 [WS-AOC-12E-AS-20]	B183909	2.03	10.0	08/11/17
17H0112-05 [WS-AOC-12E-AS-46]	B183909	2.10	10.0	08/11/17
17H0112-06 [WS-AOC-12E-AS-32]	B183909	2.06	10.0	08/11/17
17H0112-07 [WS-AOC-12E-AS-29]	B183909	2.07	10.0	08/11/17
17H0112-08 [WS-AOC-12E-AS-22]	B183909	2.17	10.0	08/11/17
17H0112-09 [WS-AOC-12E-AS-47]	B183909	2.00	10.0	08/11/17
17H0112-10 [WS-AOC-12E-AS-34]	B183909	2.01	10.0	08/11/17
17H0112-11 [WS-AOC-12E-AS-Dup5]	B183909	2.09	10.0	08/11/17
17H0112-12 [WS-AOC-12E-AS-50]	B183909	2.05	10.0	08/11/17
17H0112-13 [WS-AOC-12E-AS-36]	B183909	2.03	10.0	08/11/17
17H0112-14 [WS-AOC-12E-AS-30]	B183909	2.00	10.0	08/11/17
17H0112-15 [WS-AOC12E-AS-23]	B183909	2.05	10.0	08/11/17
17H0112-16 [WS-AOC-12E-AS-53]	B183909	2.08	10.0	08/11/17
17H0112-17 [WS-AOC-12E-AS-40]	B183909	2.09	10.0	08/11/17
17H0112-18 [WS-AOC-12E-AS-26]	B183909	2.17	10.0	08/11/17
17H0112-19 [WS-AOC-12E-AS-38]	B183909	2.27	10.0	08/11/17
17H0112-20 [WS-AOC-12E-AS-43]	B183909	2.14	10.0	08/11/17

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

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 B183909 - SW-846 3540C										
Blank (B183909-BLK1)				Prepared: 08/11/17 Analyzed: 08/18/17						
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	*0.999*		mg/Kg	1.00		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS (B183909-BS1)				Prepared: 08/11/17 Analyzed: 08/18/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		98.9	40-140			
Aroclor-1016 [2C]	0.98	0.10	mg/Kg	1.00		98.2	40-140			
Aroclor-1260	0.90	0.10	mg/Kg	1.00		89.5	40-140			
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.3	40-140			
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Surrogate: Tetrachloro-m-xylene	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.07*		mg/Kg	1.00		107	30-150			
LCS Dup (B183909-BSD1)				Prepared: 08/11/17 Analyzed: 08/18/17						
Aroclor-1016	0.99	0.10	mg/Kg	1.00		99.1	40-140	0.232	30	
Aroclor-1016 [2C]	1.0	0.10	mg/Kg	1.00		99.6	40-140	1.38	30	
Aroclor-1260	0.89	0.10	mg/Kg	1.00		88.7	40-140	0.879	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.1	40-140	0.203	30	
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.986*		mg/Kg	1.00		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	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 B183909 - SW-846 3540C										
Matrix Spike (B183909-MS1)		**Source: 17H0112-14**		Prepared: 08/11/17 Analyzed: 08/19/17						
Aroclor-1016	1.0	0.49	mg/Kg	0.971	ND	103	40-140			
Aroclor-1016 [2C]	1.2	0.49	mg/Kg	0.971	ND	120	40-140			
Aroclor-1260	0.86	0.49	mg/Kg	0.971	ND	88.3	40-140			
Aroclor-1260 [2C]	1.0	0.49	mg/Kg	0.971	ND	104	40-140			
Surrogate: Decachlorobiphenyl	*0.801*		mg/Kg	0.971		82.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.854*		mg/Kg	0.971		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.979*		mg/Kg	0.971		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.08*		mg/Kg	0.971		111	30-150			
Matrix Spike Dup (B183909-MSD1)		**Source: 17H0112-14**		Prepared: 08/11/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.47	mg/Kg	0.948	ND	99.5	40-140	5.64	50	
Aroclor-1016 [2C]	1.1	0.47	mg/Kg	0.948	ND	114	40-140	7.31	50	
Aroclor-1260	0.82	0.47	mg/Kg	0.948	ND	86.3	40-140	4.69	50	
Aroclor-1260 [2C]	0.96	0.47	mg/Kg	0.948	ND	101	40-140	5.34	50	
Surrogate: Decachlorobiphenyl	*0.772*		mg/Kg	0.948		81.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.821*		mg/Kg	0.948		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.944*		mg/Kg	0.948		99.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.04*		mg/Kg	0.948		109	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-32

Lab Sample ID: 17H0112-06

Date(s) Analyzed: 08/18/2017 08/18/2017

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-1248	1	0.000	0.000	0.000	0.72	
	2	0.000	0.000	0.000	1.0	32.6
Aroclor-1260	1	0.000	0.000	0.000	0.50	
	2	0.000	0.000	0.000	0.64	24.6

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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

17H0112

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	PCB w/ Soxhlet extraction											# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-12E-AS-44	8/2/17	1357		X	O	U	X													
02	WS-AOC-12E-AS-33	↓	1425		↓	↓	↓	↓													
03	WS-AOC-12E-AS-28		1358																		
04	WS-AOC-12E-AS-20		1315																		
05	WS-AOC-12E-AS-46		1451																		
06	WS-AOC-12E-AS-32		1420																		
07	WS-AOC-12E-AS-29		1400																		
08	WS-AOC-12E-AS-22		1332																		
09	WS-AOC-12E-AS-47		1452																		
10	WS-AOC-12E-AS-34	↓	1426		↓	↓	↓	↓													

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) Asphalt

[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:
	8/2/17 1525
Received by: (signature) Tom Mau	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mau	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
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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Fax: 413-525-6405
Email: info@contestlabs.com

17H0112

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: PCB w/ Soxhlet extraction

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
11	WS-AOC-12E-AS-DUP	8/2/17	–		X	O	V
12	WS-AOC-12E-AS-50	↓	1453		↓	↓	↓
13	WS-AOC-12E-AS-36		1433				
14	WS-AOC-12E-AS-30		1402				
15	WS-AOC12E-AS-23		1336				
16	WS-AOC-12E-AS-53		1454				
17	WS-AOC-12E-AS-40		1442				
18	WS-AOC-12E-AS-26		1340				
19	WS-AOC-12E-AS-38		1435				
20	WS-AOC-12E-AS-43	↓	1444		↓	↓	↓

# 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) Asphalt

[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-AOC-12E-AS-30 is 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]	8/2/17 1525
Received by: (signature) Tom Mai	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mai	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
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 Cuesky + Sampson

Received By PLF Date 8/2/17 Time 1755

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 - 2.9°C
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? NA Were Samples Tampered with? ~~T~~ 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	22
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: 17H0112

Laboratory Sample ID(s):

17H0112-01 thru 17H0112-20

Sample Date(s):

08/02/2017

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:** **08/21/17**

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

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

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

August 23, 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: 17H0114

Enclosed are results of analyses for samples received by the laboratory on August 2, 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: 8/23/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0114

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-12W-CO-127	17H0114-01	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-126	17H0114-02	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-128	17H0114-03	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-125	17H0114-04	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-124	17H0114-05	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-123	17H0114-06	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-122	17H0114-07	Product/Solid		SW-846 8082A	
WS-AOC-12W-CO-121	17H0114-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-6	17H0114-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-7	17H0114-10	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-8	17H0114-11	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-9	17H0114-12	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-10	17H0114-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-11	17H0114-14	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-12	17H0114-15	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-13	17H0114-16	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-14	17H0114-17	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-15	17H0114-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-16	17H0114-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-18	17H0114-20	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-19	17H0114-21	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-Dup4	17H0114-22	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-27	17H0114-23	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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-127 Sampled: 8/2/2017 08:30

Sample ID: 17H0114-01

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	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1221 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1232 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1242 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1248 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1254 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1260 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1262 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG
Aroclor-1268 [1]	ND	0.095	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.3	30-150		8/22/17 17:28
Decachlorobiphenyl [2]	101	30-150		8/22/17 17:28
Tetrachloro-m-xylene [1]	99.5	30-150		8/22/17 17:28
Tetrachloro-m-xylene [2]	108	30-150		8/22/17 17:28

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-126 Sampled: 8/2/2017 08:25

Sample ID: 17H0114-02

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	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		8/22/17 17:45
Decachlorobiphenyl [2]	98.6	30-150		8/22/17 17:45
Tetrachloro-m-xylene [1]	97.5	30-150		8/22/17 17:45
Tetrachloro-m-xylene [2]	105	30-150		8/22/17 17:45

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-128 Sampled: 8/2/2017 08:55

Sample ID: 17H0114-03

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	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		8/22/17 18:03
Decachlorobiphenyl [2]	95.2	30-150		8/22/17 18:03
Tetrachloro-m-xylene [1]	93.6	30-150		8/22/17 18:03
Tetrachloro-m-xylene [2]	100	30-150		8/22/17 18:03

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-125 Sampled: 8/2/2017 09:25

Sample ID: 17H0114-04

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	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:21	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/22/17 18:21
Decachlorobiphenyl [2]	112	30-150		8/22/17 18:21
Tetrachloro-m-xylene [1]	110	30-150		8/22/17 18:21
Tetrachloro-m-xylene [2]	119	30-150		8/22/17 18:21

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-124 Sampled: 8/2/2017 09:35

Sample ID: 17H0114-05

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	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:39	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		8/22/17 18:39
Decachlorobiphenyl [2]	94.1	30-150		8/22/17 18:39
Tetrachloro-m-xylene [1]	92.3	30-150		8/22/17 18:39
Tetrachloro-m-xylene [2]	101	30-150		8/22/17 18:39

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-123 Sampled: 8/2/2017 10:00

Sample ID: 17H0114-06

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	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 18:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		8/22/17 18:56
Decachlorobiphenyl [2]	81.7	30-150		8/22/17 18:56
Tetrachloro-m-xylene [1]	79.6	30-150		8/22/17 18:56
Tetrachloro-m-xylene [2]	86.8	30-150		8/22/17 18:56

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-122 Sampled: 8/2/2017 10:40

Sample ID: 17H0114-07

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	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.3	30-150		8/22/17 19:14
Decachlorobiphenyl [2]	96.4	30-150		8/22/17 19:14
Tetrachloro-m-xylene [1]	95.2	30-150		8/22/17 19:14
Tetrachloro-m-xylene [2]	103	30-150		8/22/17 19:14

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12W-CO-121 Sampled: 8/2/2017 10:30

Sample ID: 17H0114-08

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	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1221 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1232 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1242 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1248 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1254 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1260 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1262 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG
Aroclor-1268 [1]	ND	0.089	mg/Kg	1		SW-846 8082A	8/11/17	8/22/17 19:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/22/17 19:32
Decachlorobiphenyl [2]	111	30-150		8/22/17 19:32
Tetrachloro-m-xylene [1]	107	30-150		8/22/17 19:32
Tetrachloro-m-xylene [2]	116	30-150		8/22/17 19:32

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-6 Sampled: 8/2/2017 10:55

Sample ID: 17H0114-09

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		8/22/17 20:38
Decachlorobiphenyl [2]	88.3	30-150		8/22/17 20:38
Tetrachloro-m-xylene [1]	85.0	30-150		8/22/17 20:38
Tetrachloro-m-xylene [2]	95.4	30-150		8/22/17 20:38

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-7 Sampled: 8/2/2017 11:00

Sample ID: 17H0114-10

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 20:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		8/22/17 20:56
Decachlorobiphenyl [2]	88.6	30-150		8/22/17 20:56
Tetrachloro-m-xylene [1]	88.3	30-150		8/22/17 20:56
Tetrachloro-m-xylene [2]	99.0	30-150		8/22/17 20:56

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-8 Sampled: 8/2/2017 11:10

Sample ID: 17H0114-11

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	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1221 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1232 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1242 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1248 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1254 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1260 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1262 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG
Aroclor-1268 [1]	ND	0.46	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		8/22/17 21:13
Decachlorobiphenyl [2]	91.0	30-150		8/22/17 21:13
Tetrachloro-m-xylene [1]	86.7	30-150		8/22/17 21:13
Tetrachloro-m-xylene [2]	98.0	30-150		8/22/17 21:13

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-9 Sampled: 8/2/2017 11:27

Sample ID: 17H0114-12

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	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1221 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1232 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1242 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1248 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1254 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1260 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1262 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG
Aroclor-1268 [1]	ND	0.47	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		8/22/17 21:31
Decachlorobiphenyl [2]	78.0	30-150		8/22/17 21:31
Tetrachloro-m-xylene [1]	76.6	30-150		8/22/17 21:31
Tetrachloro-m-xylene [2]	86.7	30-150		8/22/17 21:31

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-10 Sampled: 8/2/2017 11:31

Sample ID: 17H0114-13

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 21:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	49.1	30-150		8/22/17 21:49
Decachlorobiphenyl [2]	56.7	30-150		8/22/17 21:49
Tetrachloro-m-xylene [1]	60.2	30-150		8/22/17 21:49
Tetrachloro-m-xylene [2]	68.8	30-150		8/22/17 21:49

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-11 Sampled: 8/2/2017 11:38

Sample ID: 17H0114-14

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	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1221 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1232 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1242 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1248 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1254 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1260 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1262 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG
Aroclor-1268 [1]	ND	0.44	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		8/22/17 22:07
Decachlorobiphenyl [2]	81.5	30-150		8/22/17 22:07
Tetrachloro-m-xylene [1]	85.1	30-150		8/22/17 22:07
Tetrachloro-m-xylene [2]	95.1	30-150		8/22/17 22:07

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-12 Sampled: 8/2/2017 11:50

Sample ID: 17H0114-15

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	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		8/22/17 22:24
Decachlorobiphenyl [2]	79.3	30-150		8/22/17 22:24
Tetrachloro-m-xylene [1]	89.4	30-150		8/22/17 22:24
Tetrachloro-m-xylene [2]	99.7	30-150		8/22/17 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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-13 Sampled: 8/2/2017 11:56

Sample ID: 17H0114-16

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 22:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.0	30-150		8/22/17 22:42
Decachlorobiphenyl [2]	74.0	30-150		8/22/17 22:42
Tetrachloro-m-xylene [1]	78.4	30-150		8/22/17 22:42
Tetrachloro-m-xylene [2]	88.3	30-150		8/22/17 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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-14 Sampled: 8/2/2017 12:01

Sample ID: 17H0114-17

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/22/17 23:00
Decachlorobiphenyl [2]	64.6	30-150		8/22/17 23:00
Tetrachloro-m-xylene [1]	72.5	30-150		8/22/17 23:00
Tetrachloro-m-xylene [2]	81.7	30-150		8/22/17 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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-15 Sampled: 8/2/2017 12:00

Sample ID: 17H0114-18

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	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1221 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1232 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1242 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1248 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1254 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1260 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1262 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG
Aroclor-1268 [1]	ND	0.45	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.4	30-150		8/22/17 23:18
Decachlorobiphenyl [2]	78.1	30-150		8/22/17 23:18
Tetrachloro-m-xylene [1]	85.2	30-150		8/22/17 23:18
Tetrachloro-m-xylene [2]	95.0	30-150		8/22/17 23:18

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-16 Sampled: 8/2/2017 12:11

Sample ID: 17H0114-19

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	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1221 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1232 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1242 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1248 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1254 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1260 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1262 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG
Aroclor-1268 [1]	ND	0.49	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.6	30-150		8/22/17 23:35
Decachlorobiphenyl [2]	81.3	30-150		8/22/17 23:35
Tetrachloro-m-xylene [1]	88.4	30-150		8/22/17 23:35
Tetrachloro-m-xylene [2]	97.5	30-150		8/22/17 23:35

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-18 Sampled: 8/2/2017 13:05

Sample ID: 17H0114-20

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	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/11/17	8/22/17 23:53	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/22/17 23:53
Decachlorobiphenyl [2]	82.6	30-150		8/22/17 23:53
Tetrachloro-m-xylene [1]	90.9	30-150		8/22/17 23:53
Tetrachloro-m-xylene [2]	100	30-150		8/22/17 23:53

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-19 Sampled: 8/2/2017 13:11

Sample ID: 17H0114-21

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	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.5	30-150		8/15/17 14:39
Decachlorobiphenyl [2]	66.5	30-150		8/15/17 14:39
Tetrachloro-m-xylene [1]	83.7	30-150		8/15/17 14:39
Tetrachloro-m-xylene [2]	70.2	30-150		8/15/17 14:39

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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: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-Dup4 Sampled: 8/2/2017 00:00

Sample ID: 17H0114-22

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	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1260 [1]	0.14	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL
Aroclor-1268 [1]	0.11	0.098	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 14:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.8	30-150		8/15/17 14:57
Decachlorobiphenyl [2]	43.3	30-150		8/15/17 14:57
Tetrachloro-m-xylene [1]	61.2	30-150		8/15/17 14:57
Tetrachloro-m-xylene [2]	54.5	30-150		8/15/17 14:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0114

Date Received: 8/2/2017

Field Sample #: WS-AOC-12E-AS-27 Sampled: 8/2/2017 13:44

Sample ID: 17H0114-23

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	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1242 [2]	0.13	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1260 [1]	0.14	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	8/13/17	8/15/17 15:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/15/17 15:16
Decachlorobiphenyl [2]	66.1	30-150		8/15/17 15:16
Tetrachloro-m-xylene [1]	85.0	30-150		8/15/17 15:16
Tetrachloro-m-xylene [2]	74.2	30-150		8/15/17 15:16

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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
17H0114-01 [WS-AOC-12W-CO-127]	B183910	2.11	10.0	08/11/17
17H0114-02 [WS-AOC-12W-CO-126]	B183910	2.13	10.0	08/11/17
17H0114-03 [WS-AOC-12W-CO-128]	B183910	2.14	10.0	08/11/17
17H0114-04 [WS-AOC-12W-CO-125]	B183910	2.03	10.0	08/11/17
17H0114-05 [WS-AOC-12W-CO-124]	B183910	2.14	10.0	08/11/17
17H0114-06 [WS-AOC-12W-CO-123]	B183910	2.18	10.0	08/11/17
17H0114-07 [WS-AOC-12W-CO-122]	B183910	2.07	10.0	08/11/17
17H0114-08 [WS-AOC-12W-CO-121]	B183910	2.24	10.0	08/11/17
17H0114-09 [WS-AOC-12E-AS-6]	B183910	2.16	10.0	08/11/17
17H0114-10 [WS-AOC-12E-AS-7]	B183910	2.19	10.0	08/11/17
17H0114-11 [WS-AOC-12E-AS-8]	B183910	2.19	10.0	08/11/17
17H0114-12 [WS-AOC-12E-AS-9]	B183910	2.14	10.0	08/11/17
17H0114-13 [WS-AOC-12E-AS-10]	B183910	2.03	10.0	08/11/17
17H0114-14 [WS-AOC-12E-AS-11]	B183910	2.27	10.0	08/11/17
17H0114-15 [WS-AOC-12E-AS-12]	B183910	2.23	10.0	08/11/17
17H0114-16 [WS-AOC-12E-AS-13]	B183910	2.02	10.0	08/11/17
17H0114-17 [WS-AOC-12E-AS-14]	B183910	2.04	10.0	08/11/17
17H0114-18 [WS-AOC-12E-AS-15]	B183910	2.22	10.0	08/11/17
17H0114-19 [WS-AOC-12E-AS-16]	B183910	2.06	10.0	08/11/17
17H0114-20 [WS-AOC-12E-AS-18]	B183910	2.00	10.0	08/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0114-21RE1 [WS-AOC-12E-AS-19]	B183952	2.15	10.0	08/13/17
17H0114-22RE1 [WS-AOC-12E-AS-Dup4]	B183952	2.04	10.0	08/13/17
17H0114-23RE1 [WS-AOC-12E-AS-27]	B183952	2.36	10.0	08/13/17

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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 B183910 - SW-846 3540C										
Blank (B183910-BLK1)				Prepared: 08/11/17 Analyzed: 08/22/17						
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	*0.983*		mg/Kg	1.00		98.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.974*		mg/Kg	1.00		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	1.00		106	30-150			
LCS (B183910-BS1)				Prepared: 08/11/17 Analyzed: 08/22/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.8	40-140			
Aroclor-1016 [2C]	0.94	0.10	mg/Kg	1.00		94.5	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.0	40-140			
Aroclor-1260 [2C]	0.82	0.10	mg/Kg	1.00		81.5	40-140			
Surrogate: Decachlorobiphenyl	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.976*		mg/Kg	1.00		97.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
LCS Dup (B183910-BSD1)				Prepared: 08/11/17 Analyzed: 08/22/17						
Aroclor-1016	0.76	0.10	mg/Kg	1.00		76.1	40-140	18.6	30	
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		80.0	40-140	16.6	30	
Aroclor-1260	0.67	0.10	mg/Kg	1.00		66.8	40-140	20.4	30	
Aroclor-1260 [2C]	0.69	0.10	mg/Kg	1.00		69.1	40-140	16.5	30	
Surrogate: Decachlorobiphenyl	*0.772*		mg/Kg	1.00		77.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.802*		mg/Kg	1.00		80.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.794*		mg/Kg	1.00		79.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.854*		mg/Kg	1.00		85.4	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 B183910 - SW-846 3540C										
Matrix Spike (B183910-MS1)		**Source: 17H0114-19**		Prepared: 08/11/17 Analyzed: 08/23/17						
Aroclor-1016	0.87	0.47	mg/Kg	0.939	ND	92.9	40-140			
Aroclor-1016 [2C]	1.0	0.47	mg/Kg	0.939	ND	108	40-140			
Aroclor-1260	0.98	0.47	mg/Kg	0.939	ND	104	40-140			
Aroclor-1260 [2C]	1.1	0.47	mg/Kg	0.939	ND	121	40-140			
Surrogate: Decachlorobiphenyl	*0.682*		mg/Kg	0.939		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.785*		mg/Kg	0.939		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.827*		mg/Kg	0.939		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.919*		mg/Kg	0.939		97.9	30-150			
Matrix Spike Dup (B183910-MSD1)		**Source: 17H0114-19**		Prepared: 08/11/17 Analyzed: 08/23/17						
Aroclor-1016	0.89	0.47	mg/Kg	0.930	ND	95.3	40-140	1.65	50	
Aroclor-1016 [2C]	1.0	0.47	mg/Kg	0.930	ND	109	40-140	0.188	50	
Aroclor-1260	0.95	0.47	mg/Kg	0.930	ND	102	40-140	3.43	50	
Aroclor-1260 [2C]	1.1	0.47	mg/Kg	0.930	ND	118	40-140	3.77	50	
Surrogate: Decachlorobiphenyl	*0.702*		mg/Kg	0.930		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.794*		mg/Kg	0.930		85.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.838*		mg/Kg	0.930		90.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.933*		mg/Kg	0.930		100	30-150			
Batch B183952 - SW-846 3540C										
Blank (B183952-BLK1)				Prepared: 08/13/17 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	*1.01*		mg/Kg	1.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.903*		mg/Kg	1.00		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.822*		mg/Kg	1.00		82.2	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 B183952 - SW-846 3540C										
LCS (B183952-BS1)				Prepared: 08/13/17 Analyzed: 08/15/17						
Aroclor-1016	0.85	0.10	mg/Kg	1.00		84.7	40-140			
Aroclor-1016 [2C]	0.83	0.10	mg/Kg	1.00		82.9	40-140			
Aroclor-1260	0.78	0.10	mg/Kg	1.00		78.4	40-140			
Aroclor-1260 [2C]	0.72	0.10	mg/Kg	1.00		72.0	40-140			
Surrogate: Decachlorobiphenyl	*0.965*		mg/Kg	1.00		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.876*		mg/Kg	1.00		87.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.851*		mg/Kg	1.00		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.779*		mg/Kg	1.00		77.9	30-150			
LCS Dup (B183952-BSD1)				Prepared: 08/13/17 Analyzed: 08/15/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		94.4	40-140	10.9	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.1	40-140	9.40	30	
Aroclor-1260	0.87	0.10	mg/Kg	1.00		86.9	40-140	10.3	30	
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		80.2	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.984*		mg/Kg	1.00		98.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.936*		mg/Kg	1.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.850*		mg/Kg	1.00		85.0	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-Dup4

Lab Sample ID: 17H0114-22RE1

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	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.12	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-27

Lab Sample ID: 17H0114-23RE1

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-1242	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.13	8.0
Aroclor-1260	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.12	15.4

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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

con-test ANALYTICAL LABORATORY
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17H0114

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	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC12W-CO-127	8/2/17	8:30		X	O	U	X			
02	WS-AOC12W-CO-126		8:25								
03	WS-AOC12W-CO-128		8:55								
04	WS-AOC12W-CO-125		9:25								
05	WS-AOC12W-CO-124		9:35								
06	WS-AOC12W-CO-123		10:00								
07	WS-AOC12W-CO-122		10:40								
08	WS-AOC12W-CO-121		10:30								
09	WS-AOC12E-AS-6		10:55								
10	WS-AOC12E-AS-7		11:00								

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) Porous Media.

[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: 8/2/17 1525
Received by: (signature) Tom Mau	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mau	Date/Time: 8/2/17 1755
Received by: (signature) 2.9C	Date/Time: 8/2/17 1755
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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Table of Contents

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

17H0114

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	PCBs Soil 4/20	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOCIZE-AS-8	8/2/17	11:10		X	O	U	X			
12	WS-AOCIZE-AS-9	↓	11:27		↓	↓	↓	↓			
13	WS-AOCIZE-AS-10		11:31								
14	WS-AOCIZE-AS-11		11:38								
15	WS-AOCIZE-AS-12		11:50								
16	WS-AOCIZE-AS-13		11:56								
17	WS-AOCIZE-AS-14		12:01								
18	WS-AOCIZE-AS-15		12:00								
19	WS-AOCIZE-AS-16		12:11								
20	WS-AOCIZE-AS-18		13:05								

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)
Powdered

[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-AOCIZE-AS-16 (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: 8/2/17 1525
Received by: (signature) Tom Mai	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mai	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
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

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

PCBs Soxhlet

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC12E-AS-19	8/2/17	13:11		X	O	U	X			
	~~DUP~~										
22	WS-AOC12E-AS-DUP-4	8/2/17			X	O	U	X			
23	WS-AOC12E-AS-27	8/2/17	1344		X	O	U	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)
Polysmedia

[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: 8/2/17 1525
Received by: (signature) Tom Mair	Date/Time: 8/2/17 1525
Relinquished by: (signature) Tom Mair	Date/Time: 8/2/17 1755
Received by: (signature)	Date/Time: 8/2/17 1755
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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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 Wesley + Sampson

Received By RLF Date 8/2/17 Time 1755

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 - 2.9°C
By Blank # ___ Actual Temp - ___

Was Custody Seal Intact? NA Were Samples Tampered with? ~~T~~ 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	25
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: 17H0114

Laboratory Sample ID(s):

17H0114-01 thru 17H0114-23

Sample Date(s):

08/02/2017

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:** **08/23/17**

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: 17H0196

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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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: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0196

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-AOC2-SO-2-1	17H0196-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-2-2	17H0196-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-3-1	17H0196-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-3-2	17H0196-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-1-1	17H0196-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-1-2	17H0196-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-4-1	17H0196-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
WS-AOC2-SO-4-2	17H0196-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8260C	
				SW-846 8270D	
Trip Blank	17H0196-09	Trip Blank Soil		SW-846 8260C	

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: 17H0196

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-AOC2-SO-Dup-45	17H0196-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-SO-Dup-46	17H0196-11	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.

SW-846 8082A

Qualifications:

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183939-MS1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Fluoranthene
17H0196-05[WS-AOC2-SO-1-1]

Pyrene
17H0196-05[WS-AOC2-SO-1-1]

MS-09

Matrix spike recovery and/or matrix spike duplicate 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:

Benzo(a)anthracene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Benzo(g,h,i)perylene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Chrysene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Fluoranthene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

Pyrene
17H0196-03[WS-AOC2-SO-3-1], B183764-MS1, B183764-MSD1

MS-22

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

Analyte & Samples(s) Qualified:

Benzo(b)fluoranthene
B183764-MSD1

Dibenz(a,h)anthracene
B183764-MS1

Phenanthrene
B183764-MSD1

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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	0.070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Acrylonitrile	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Bromomethane	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Chloromethane	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,4-Dichloro-2-butene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3-Dichloropropane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
cis-1,3-Dichloropropene	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
trans-1,3-Dichloropropene	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2,2-Tetrachloroethane	ND	0.00070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Tetrahydrofuran	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
Vinyl Chloride	ND	0.0070	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 9:51	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	94.8	70-130		8/8/17 9:51
Toluene-d8	92.8	70-130		8/8/17 9:51
4-Bromofluorobenzene	88.0	70-130		8/8/17 9:51

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Acenaphthylene	0.24	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Anthracene	0.22	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(a)anthracene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(a)pyrene	1.4	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(b)fluoranthene	1.6	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(g,h,i)perylene	1.0	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Benzo(k)fluoranthene	0.62	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Chrysene	0.91	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Dibenz(a,h)anthracene	0.25	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Fluoranthene	1.8	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Indeno(1,2,3-cd)pyrene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Phenanthrene	0.47	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT
Pyrene	2.3	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 18:57	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	66.0	30-130		8/11/17 18:57
2-Fluorobiphenyl	62.5	30-130		8/11/17 18:57
p-Terphenyl-d14	70.6	30-130		8/11/17 18:57

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	8/12/17	8/15/17 23:30	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/15/17 23:30
Decachlorobiphenyl [2]	83.5	30-150		8/15/17 23:30
Tetrachloro-m-xylene [1]	95.7	30-150		8/15/17 23:30
Tetrachloro-m-xylene [2]	87.7	30-150		8/15/17 23:30

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	54	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 1:27	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.0	50-150		8/11/17 1:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0196-01

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	92.5		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	0.069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Acrylonitrile	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Carbon Disulfide	ND	0.0041	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2,2-Tetrachloroethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:18	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.9	70-130		8/8/17 10:18
Toluene-d8	93.2	70-130		8/8/17 10:18
4-Bromofluorobenzene	84.4	70-130		8/8/17 10:18

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT
Pyrene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:22	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	82.8	30-130		8/11/17 19:22
2-Fluorobiphenyl	79.6	30-130		8/11/17 19:22
p-Terphenyl-d14	89.8	30-130		8/11/17 19:22

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	8/12/17	8/15/17 23:48	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/15/17 23:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.7	30-150		8/15/17 23:48
Decachlorobiphenyl [2]	90.4	30-150		8/15/17 23:48
Tetrachloro-m-xylene [1]	97.4	30-150		8/15/17 23:48
Tetrachloro-m-xylene [2]	91.9	30-150		8/15/17 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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	720	110	mg/Kg dry	10		CTDEP ETPH	8/10/17	8/11/17 1:45	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.5	50-150		8/11/17 1:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-2-2 Sampled: 8/3/2017 09:11

Sample ID: 17H0196-02

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	89.6		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	0.072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Acrylonitrile	ND	0.0043	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Benzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Bromomethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Butanone (MEK)	ND	0.029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Carbon Disulfide	ND	0.0043	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloroform	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Chloromethane	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,4-Dichloro-2-butene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloroethylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3-Dichloropropane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
cis-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
trans-1,3-Dichloropropene	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Naphthalene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2,2-Tetrachloroethane	ND	0.00072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Tetrahydrofuran	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
Vinyl Chloride	ND	0.0072	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
m+p Xylene	ND	0.0029	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 10:46	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	98.6	70-130		8/8/17 10:46
Toluene-d8	91.2	70-130		8/8/17 10:46
4-Bromofluorobenzene	91.8	70-130		8/8/17 10:46

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Anthracene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(a)anthracene	0.73	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(a)pyrene	0.82	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(b)fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(g,h,i)perylene	0.49	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Benzo(k)fluoranthene	0.34	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Chrysene	0.63	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Fluoranthene	1.6	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Indeno(1,2,3-cd)pyrene	0.53	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Phenanthrene	0.89	0.18	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 19:46	CDT
Pyrene	1.6	0.18	mg/Kg dry	1	MS-09	SW-846 8270D	8/10/17	8/11/17 19:46	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.2	30-130		8/11/17 19:46
2-Fluorobiphenyl	72.2	30-130		8/11/17 19:46
p-Terphenyl-d14	82.9	30-130		8/11/17 19:46

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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		8/16/17 0:06
Decachlorobiphenyl [2]	86.3	30-150		8/16/17 0:06
Tetrachloro-m-xylene [1]	94.5	30-150		8/16/17 0:06
Tetrachloro-m-xylene [2]	87.8	30-150		8/16/17 0:06

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	54	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 2:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.5	50-150		8/11/17 2:03

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0196-03

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	92.1		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	0.064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Acrylonitrile	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Bromomethane	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Carbon Disulfide	ND	0.0039	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Chloromethane	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3-Dichloropropane	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
cis-1,3-Dichloropropene	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
trans-1,3-Dichloropropene	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2,2-Tetrachloroethane	ND	0.00064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Tetrahydrofuran	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
Vinyl Chloride	ND	0.0064	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:13	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	92.9	70-130		8/8/17 11:13
Toluene-d8	94.3	70-130		8/8/17 11:13
4-Bromofluorobenzene	86.4	70-130		8/8/17 11:13

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	8/10/17	8/11/17 20:11	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(a)anthracene	0.20	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(a)pyrene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(b)fluoranthene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(g,h,i)perylene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Indeno(1,2,3-cd)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT
Pyrene	0.46	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:11	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	74.3	30-130		8/11/17 20:11
2-Fluorobiphenyl	68.4	30-130		8/11/17 20:11
p-Terphenyl-d14	81.5	30-130		8/11/17 20:11

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	8/12/17	8/16/17 0:24	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.0	30-150		8/16/17 0:24
Decachlorobiphenyl [2]	83.8	30-150		8/16/17 0:24
Tetrachloro-m-xylene [1]	87.0	30-150		8/16/17 0:24
Tetrachloro-m-xylene [2]	81.5	30-150		8/16/17 0:24

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	29	11	mg/Kg dry	1		CTDEP ETPH	8/10/17	8/10/17 23:58	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	80.2	50-150		8/10/17 23:58

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-3-2 Sampled: 8/3/2017 09:36

Sample ID: 17H0196-04

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	89.2		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	0.069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Acrylonitrile	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Benzene	0.0021	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromodichloromethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromoform	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Bromomethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Butanone (MEK)	ND	0.028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
n-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
sec-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
tert-Butylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Carbon Disulfide	ND	0.0042	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Carbon Tetrachloride	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chlorodibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloroethane	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloroform	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Chloromethane	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
4-Chlorotoluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dibromoethane (EDB)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Dibromomethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,4-Dichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,4-Dichloro-2-butene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloroethylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
cis-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,2-Dichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3-Dichloropropane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2,2-Dichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1-Dichloropropene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
cis-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
trans-1,3-Dichloropropene	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Ethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Hexachlorobutadiene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
2-Hexanone (MBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Isopropylbenzene (Cumene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Methylene Chloride	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Naphthalene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
n-Propylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Styrene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,1,2-Tetrachloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2,2-Tetrachloroethane	ND	0.00069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Tetrachloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Tetrahydrofuran	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Toluene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,3-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,4-Trichlorobenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,1-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2-Trichloroethane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Trichloroethylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,3-Trichloropropane	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,2,4-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
1,3,5-Trimethylbenzene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
Vinyl Chloride	ND	0.0069	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
m+p Xylene	ND	0.0028	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF
o-Xylene	ND	0.0014	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 11:40	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	93.2	70-130		8/8/17 11:40
Toluene-d8	93.1	70-130		8/8/17 11:40
4-Bromofluorobenzene	86.0	70-130		8/8/17 11:40

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	8/10/17	8/11/17 20:35	CDT
Acenaphthene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Acenaphthylene	0.58	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Acenaphthylene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Anthracene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Anthracene	0.95	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(a)anthracene	3.3	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(a)anthracene	3.0	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(a)pyrene	3.7	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(a)pyrene	3.2	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(b)fluoranthene	4.2	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(b)fluoranthene	3.9	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(g,h,i)perylene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(g,h,i)perylene	1.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Benzo(k)fluoranthene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Benzo(k)fluoranthene	1.5	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Chrysene	2.9	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Chrysene	2.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Dibenz(a,h)anthracene	0.52	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Dibenz(a,h)anthracene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Fluoranthene	8.9	0.19	mg/Kg dry	1	E	SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Fluoranthene	7.5	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Fluorene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Indeno(1,2,3-cd)pyrene	2.0	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Indeno(1,2,3-cd)pyrene	1.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
2-Methylnaphthalene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Naphthalene	ND	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Phenanthrene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Phenanthrene	2.0	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL
Pyrene	10	0.19	mg/Kg dry	1	E	SW-846 8270D	8/10/17	8/11/17 20:35	CDT
Pyrene	7.8	0.76	mg/Kg dry	4		SW-846 8270D	8/10/17	8/14/17 12:25	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	59.6	30-130		8/11/17 20:35
Nitrobenzene-d5	60.2	30-130		8/14/17 12:25
2-Fluorobiphenyl	60.1	30-130		8/11/17 20:35
2-Fluorobiphenyl	55.5	30-130		8/14/17 12:25
p-Terphenyl-d14	73.7	30-130		8/11/17 20:35
p-Terphenyl-d14	58.6	30-130		8/14/17 12:25

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 0:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		8/16/17 0:43
Decachlorobiphenyl [2]	84.6	30-150		8/16/17 0:43
Tetrachloro-m-xylene [1]	88.6	30-150		8/16/17 0:43
Tetrachloro-m-xylene [2]	80.4	30-150		8/16/17 0:43

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	370	56	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 2:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.6	50-150		8/11/17 2:56

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0196-05

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	90.0		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	0.066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Acrylonitrile	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Bromomethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Butanone (MEK)	ND	0.026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloroform	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Chloromethane	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,4-Dichloro-2-butene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloroethylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3-Dichloropropane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
cis-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
trans-1,3-Dichloropropene	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Naphthalene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2,2-Tetrachloroethane	ND	0.00066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Tetrahydrofuran	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
Vinyl Chloride	ND	0.0066	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
m+p Xylene	ND	0.0026	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:07	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	91.8	70-130		8/8/17 12:07
Toluene-d8	93.0	70-130		8/8/17 12:07
4-Bromofluorobenzene	87.8	70-130		8/8/17 12:07

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 20:59	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	69.7	30-130		8/11/17 20:59
2-Fluorobiphenyl	72.8	30-130		8/11/17 20:59
p-Terphenyl-d14	93.8	30-130		8/11/17 20:59

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	8/12/17	8/16/17 1:01	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/16/17 1:01
Decachlorobiphenyl [2]	95.8	30-150		8/16/17 1:01
Tetrachloro-m-xylene [1]	97.8	30-150		8/16/17 1:01
Tetrachloro-m-xylene [2]	93.0	30-150		8/16/17 1:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	29	12	mg/Kg dry	1		CTDEP ETPH	8/10/17	8/11/17 0:16	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.2	50-150		8/11/17 0:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-1-2 Sampled: 8/3/2017 10:36

Sample ID: 17H0196-06

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	86.1		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	0.076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Acrylonitrile	ND	0.0046	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Benzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromodichloromethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromoform	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Bromomethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Butanone (MEK)	ND	0.030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
n-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
sec-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
tert-Butylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Carbon Disulfide	ND	0.0046	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Carbon Tetrachloride	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chlorodibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloroethane	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloroform	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Chloromethane	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
4-Chlorotoluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dibromoethane (EDB)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Dibromomethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,4-Dichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,4-Dichloro-2-butene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloroethylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
cis-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,2-Dichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3-Dichloropropane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2,2-Dichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1-Dichloropropene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
cis-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
trans-1,3-Dichloropropene	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Ethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Hexachlorobutadiene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
2-Hexanone (MBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Isopropylbenzene (Cumene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Methylene Chloride	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Naphthalene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
n-Propylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Styrene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,1,2-Tetrachloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2,2-Tetrachloroethane	ND	0.00076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Tetrachloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Tetrahydrofuran	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Toluene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,3-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,4-Trichlorobenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,1-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2-Trichloroethane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Trichloroethylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,3-Trichloropropane	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,2,4-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
1,3,5-Trimethylbenzene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
Vinyl Chloride	ND	0.0076	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
m+p Xylene	ND	0.0030	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF
o-Xylene	ND	0.0015	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 12:34	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	90.8	70-130		8/8/17 12:34
Toluene-d8	92.2	70-130		8/8/17 12:34
4-Bromofluorobenzene	85.6	70-130		8/8/17 12:34

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	8/10/17	8/11/17 21:23	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(a)anthracene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(a)pyrene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(b)fluoranthene	0.60	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(g,h,i)perylene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Benzo(k)fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Chrysene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Fluoranthene	0.67	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Indeno(1,2,3-cd)pyrene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Phenanthrene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT
Pyrene	0.81	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:23	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.8	30-130		8/11/17 21:23
2-Fluorobiphenyl	67.3	30-130		8/11/17 21:23
p-Terphenyl-d14	80.8	30-130		8/11/17 21:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	8/12/17	8/16/17 1:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.6	30-150		8/16/17 1:19
Decachlorobiphenyl [2]	84.7	30-150		8/16/17 1:19
Tetrachloro-m-xylene [1]	92.1	30-150		8/16/17 1:19
Tetrachloro-m-xylene [2]	84.1	30-150		8/16/17 1:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	55	mg/Kg dry	5		CTDEP ETPH	8/10/17	8/11/17 3:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.7	50-150		8/11/17 3:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-1 Sampled: 8/3/2017 10:55

Sample ID: 17H0196-07

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	91.0		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	0.067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Acrylonitrile	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Benzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromodichloromethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromoform	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Bromomethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Butanone (MEK)	ND	0.027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
n-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
sec-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
tert-Butylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Carbon Disulfide	ND	0.0040	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Carbon Tetrachloride	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chlorodibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloroethane	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloroform	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Chloromethane	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
4-Chlorotoluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dibromoethane (EDB)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Dibromomethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,4-Dichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,4-Dichloro-2-butene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloroethylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
cis-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,2-Dichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3-Dichloropropane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2,2-Dichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1-Dichloropropene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
cis-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
trans-1,3-Dichloropropene	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Ethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Hexachlorobutadiene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
2-Hexanone (MBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Isopropylbenzene (Cumene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Methylene Chloride	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Naphthalene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
n-Propylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Styrene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,1,2-Tetrachloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2,2-Tetrachloroethane	ND	0.00067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Tetrachloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Tetrahydrofuran	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Toluene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,3-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,4-Trichlorobenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,1-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2-Trichloroethane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Trichloroethylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Trichlorofluoromethane (Freon 11)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,3-Trichloropropane	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,2,4-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
1,3,5-Trimethylbenzene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
Vinyl Chloride	ND	0.0067	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
m+p Xylene	ND	0.0027	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF
o-Xylene	ND	0.0013	mg/Kg dry	1		SW-846 8260C	8/8/17	8/8/17 13:01	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	95.8	70-130		8/8/17 13:01
Toluene-d8	95.6	70-130		8/8/17 13:01
4-Bromofluorobenzene	87.7	70-130		8/8/17 13:01

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	8/10/17	8/11/17 21:47	CDT
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(b)fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT
Pyrene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	8/10/17	8/11/17 21:47	CDT

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	73.6	30-130		8/11/17 21:47
2-Fluorobiphenyl	72.6	30-130		8/11/17 21:47
p-Terphenyl-d14	83.6	30-130		8/11/17 21:47

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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		8/16/17 1:37
Decachlorobiphenyl [2]	93.7	30-150		8/16/17 1:37
Tetrachloro-m-xylene [1]	94.2	30-150		8/16/17 1:37
Tetrachloro-m-xylene [2]	89.1	30-150		8/16/17 1:37

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	8/10/17	8/10/17 17:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.8	50-150		8/10/17 17:04

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-4-2 Sampled: 8/3/2017 10:56

Sample ID: 17H0196-08

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	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: Trip Blank Sampled: 8/3/2017 00:00

Sample ID: 17H0196-09

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	ND	0.10	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Acrylonitrile	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Benzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromodichloromethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromoform	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Bromomethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Butanone (MEK)	ND	0.040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
n-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
sec-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
tert-Butylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Carbon Disulfide	ND	0.0060	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Carbon Tetrachloride	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chlorodibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloroethane	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloroform	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Chloromethane	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
4-Chlorotoluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dibromo-3-chloropropane (DBCP)	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dibromoethane (EDB)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Dibromomethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,4-Dichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,4-Dichloro-2-butene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Dichlorodifluoromethane (Freon 12)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloroethylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
cis-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,2-Dichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3-Dichloropropane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2,2-Dichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1-Dichloropropene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
cis-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
trans-1,3-Dichloropropene	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Ethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Hexachlorobutadiene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
2-Hexanone (MBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Isopropylbenzene (Cumene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
p-Isopropyltoluene (p-Cymene)	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	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: 17H0196

Date Received: 8/3/2017

Field Sample #: Trip Blank Sampled: 8/3/2017 00:00

Sample ID: 17H0196-09

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	8/8/17	8/8/17 13:28	MFF
Methylene Chloride	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
4-Methyl-2-pentanone (MIBK)	ND	0.020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Naphthalene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
n-Propylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Styrene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,1,2-Tetrachloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2,2-Tetrachloroethane	ND	0.0010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Tetrachloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Tetrahydrofuran	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Toluene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,3-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,4-Trichlorobenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,1-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2-Trichloroethane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Trichloroethylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Trichlorofluoromethane (Freon 11)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,3-Trichloropropane	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,2,4-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
1,3,5-Trimethylbenzene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
Vinyl Chloride	ND	0.010	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
m+p Xylene	ND	0.0040	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF
o-Xylene	ND	0.0020	mg/Kg wet	1		SW-846 8260C	8/8/17	8/8/17 13:28	MFF

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
1,2-Dichloroethane-d4	97.0	70-130		8/8/17 13:28
Toluene-d8	92.9	70-130		8/8/17 13:28
4-Bromofluorobenzene	87.8	70-130		8/8/17 13:28

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-Dup-45 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-10

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	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 1:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		8/16/17 1:55
Decachlorobiphenyl [2]	86.1	30-150		8/16/17 1:55
Tetrachloro-m-xylene [1]	90.8	30-150		8/16/17 1:55
Tetrachloro-m-xylene [2]	80.9	30-150		8/16/17 1:55

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC2-SO-Dup-45 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-10

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	91.7		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC-SO-Dup-46 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-11

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	8/12/17	8/16/17 2:14	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/12/17	8/16/17 2:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/16/17 2:14
Decachlorobiphenyl [2]	78.9	30-150		8/16/17 2:14
Tetrachloro-m-xylene [1]	90.7	30-150		8/16/17 2:14
Tetrachloro-m-xylene [2]	81.3	30-150		8/16/17 2:14

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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: 17H0196

Date Received: 8/3/2017

Field Sample #: WS-AOC-SO-Dup-46 Sampled: 8/3/2017 00:00

Sample ID: 17H0196-11

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	89.3		% Wt	1		SM 2540G	8/9/17	8/10/17 6:02	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
17H0196-01 [WS-AOC2-SO-2-1]	B183762	30.0	1.00	08/10/17
17H0196-02 [WS-AOC2-SO-2-2]	B183762	30.0	1.00	08/10/17
17H0196-03 [WS-AOC2-SO-3-1]	B183762	30.0	1.00	08/10/17
17H0196-04 [WS-AOC2-SO-3-2]	B183762	30.0	1.00	08/10/17
17H0196-05 [WS-AOC2-SO-1-1]	B183762	30.0	1.00	08/10/17
17H0196-06 [WS-AOC2-SO-1-2]	B183762	30.0	1.00	08/10/17
17H0196-07 [WS-AOC2-SO-4-1]	B183762	30.0	1.00	08/10/17
17H0196-08 [WS-AOC2-SO-4-2]	B183762	30.0	1.00	08/10/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183650	08/09/17
17H0196-02 [WS-AOC2-SO-2-2]	B183650	08/09/17
17H0196-03 [WS-AOC2-SO-3-1]	B183650	08/09/17
17H0196-04 [WS-AOC2-SO-3-2]	B183650	08/09/17
17H0196-05 [WS-AOC2-SO-1-1]	B183650	08/09/17
17H0196-06 [WS-AOC2-SO-1-2]	B183650	08/09/17
17H0196-07 [WS-AOC2-SO-4-1]	B183650	08/09/17
17H0196-08 [WS-AOC2-SO-4-2]	B183650	08/09/17
17H0196-10 [WS-AOC2-SO-Dup-45]	B183650	08/09/17
17H0196-11 [WS-AOC-SO-Dup-46]	B183650	08/09/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183939	10.0	10.0	08/12/17
17H0196-02 [WS-AOC2-SO-2-2]	B183939	10.0	10.0	08/12/17
17H0196-03 [WS-AOC2-SO-3-1]	B183939	10.0	10.0	08/12/17
17H0196-04 [WS-AOC2-SO-3-2]	B183939	10.0	10.0	08/12/17
17H0196-05 [WS-AOC2-SO-1-1]	B183939	10.0	10.0	08/12/17
17H0196-06 [WS-AOC2-SO-1-2]	B183939	10.0	10.0	08/12/17
17H0196-07 [WS-AOC2-SO-4-1]	B183939	10.0	10.0	08/12/17
17H0196-08 [WS-AOC2-SO-4-2]	B183939	10.0	10.0	08/12/17
17H0196-10 [WS-AOC2-SO-Dup-45]	B183939	10.0	10.0	08/12/17
17H0196-11 [WS-AOC-SO-Dup-46]	B183939	10.0	10.0	08/12/17

Prep Method: SW-846 5035-SW-846 8260C

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183601	7.76	10.0	08/08/17
17H0196-02 [WS-AOC2-SO-2-2]	B183601	8.12	10.0	08/08/17
17H0196-03 [WS-AOC2-SO-3-1]	B183601	7.57	10.0	08/08/17
17H0196-04 [WS-AOC2-SO-3-2]	B183601	8.71	10.0	08/08/17
17H0196-05 [WS-AOC2-SO-1-1]	B183601	8.00	10.0	08/08/17
17H0196-06 [WS-AOC2-SO-1-2]	B183601	8.82	10.0	08/08/17
17H0196-07 [WS-AOC2-SO-4-1]	B183601	7.21	10.0	08/08/17
17H0196-08 [WS-AOC2-SO-4-2]	B183601	8.28	10.0	08/08/17
17H0196-09 [Trip Blank]	B183601	5.00	10.0	08/08/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0196-01 [WS-AOC2-SO-2-1]	B183764	30.0	1.00	08/10/17
17H0196-02 [WS-AOC2-SO-2-2]	B183764	30.0	1.00	08/10/17
17H0196-03 [WS-AOC2-SO-3-1]	B183764	30.0	1.00	08/10/17
17H0196-04 [WS-AOC2-SO-3-2]	B183764	30.0	1.00	08/10/17
17H0196-05 [WS-AOC2-SO-1-1]	B183764	30.0	1.00	08/10/17
17H0196-05RE1 [WS-AOC2-SO-1-1]	B183764	30.0	1.00	08/10/17
17H0196-06 [WS-AOC2-SO-1-2]	B183764	30.0	1.00	08/10/17
17H0196-07 [WS-AOC2-SO-4-1]	B183764	30.0	1.00	08/10/17
17H0196-08 [WS-AOC2-SO-4-2]	B183764	30.0	1.00	08/10/17

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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 B183601 - SW-846 5035										
Blank (B183601-BLK1)				Prepared & Analyzed: 08/08/17						
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 B183601 - SW-846 5035										
Blank (B183601-BLK1)				Prepared & Analyzed: 08/08/17						
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							
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	*0.0484*		mg/Kg wet	0.0500		96.8	70-130			
Surrogate: Toluene-d8	*0.0472*		mg/Kg wet	0.0500		94.3	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0444*		mg/Kg wet	0.0500		88.8	70-130			
LCS (B183601-BS1)				Prepared & Analyzed: 08/08/17						
Acetone	0.164	0.10	mg/Kg wet	0.200		81.9	70-130			
Acrylonitrile	0.0202	0.0060	mg/Kg wet	0.0200		101	70-130			
Benzene	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
Bromobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
Bromodichloromethane	0.0223	0.0020	mg/Kg wet	0.0200		111	70-130			
Bromoform	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
Bromomethane	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
2-Butanone (MEK)	0.187	0.040	mg/Kg wet	0.200		93.4	70-130			
n-Butylbenzene	0.0197	0.0020	mg/Kg wet	0.0200		98.3	70-130			
sec-Butylbenzene	0.0192	0.0020	mg/Kg wet	0.0200		96.1	70-130			
tert-Butylbenzene	0.0194	0.0020	mg/Kg wet	0.0200		97.2	70-130			
Carbon Disulfide	0.225	0.0060	mg/Kg wet	0.200		113	70-130			
Carbon Tetrachloride	0.0198	0.0020	mg/Kg wet	0.0200		99.2	70-130			
Chlorobenzene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
Chlorodibromomethane	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Chloroethane	0.0194	0.020	mg/Kg wet	0.0200		97.2	70-130			
Chloroform	0.0216	0.0040	mg/Kg wet	0.0200		108	70-130			
Chloromethane	0.0215	0.010	mg/Kg wet	0.0200		107	70-130			
2-Chlorotoluene	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
4-Chlorotoluene	0.0219	0.0020	mg/Kg wet	0.0200		109	70-130			
1,2-Dibromo-3-chloropropane (DBCP)	0.0162	0.0020	mg/Kg wet	0.0200		80.8	70-130			
1,2-Dibromoethane (EDB)	0.0214	0.0010	mg/Kg wet	0.0200		107	70-130			
Dibromomethane	0.0216	0.0020	mg/Kg wet	0.0200		108	70-130			
1,2-Dichlorobenzene	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,3-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,4-Dichlorobenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,4-Dichloro-2-butene	0.0187	0.0040	mg/Kg wet	0.0200		93.7	70-130			
Dichlorodifluoromethane (Freon 12)	0.0231	0.020	mg/Kg wet	0.0200		116	70-130			
1,1-Dichloroethane	0.0222	0.0020	mg/Kg wet	0.0200		111	70-130			
1,2-Dichloroethane	0.0232	0.0020	mg/Kg wet	0.0200		116	70-130			
1,1-Dichloroethylene	0.0205	0.0040	mg/Kg wet	0.0200		103	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 B183601 - SW-846 5035										
LCS (B183601-BS1)				Prepared & Analyzed: 08/08/17						
cis-1,2-Dichloroethylene	0.0211	0.0020	mg/Kg wet	0.0200		105	70-130			
trans-1,2-Dichloroethylene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
1,2-Dichloropropane	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,3-Dichloropropane	0.0211	0.0010	mg/Kg wet	0.0200		106	70-130			
2,2-Dichloropropane	0.0184	0.0020	mg/Kg wet	0.0200		91.9	70-130			
1,1-Dichloropropene	0.0214	0.0020	mg/Kg wet	0.0200		107	70-130			
cis-1,3-Dichloropropene	0.0201	0.0010	mg/Kg wet	0.0200		100	70-130			
trans-1,3-Dichloropropene	0.0195	0.0010	mg/Kg wet	0.0200		97.4	70-130			
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)	0.196	0.020	mg/Kg wet	0.200		98.2	70-130			
Isopropylbenzene (Cumene)	0.0215	0.0020	mg/Kg wet	0.0200		108	70-130			
p-Isopropyltoluene (p-Cymene)	0.0201	0.0020	mg/Kg wet	0.0200		101	70-130			
Methyl tert-Butyl Ether (MTBE)	0.0197	0.0040	mg/Kg wet	0.0200		98.4	70-130			
Methylene Chloride	0.0223	0.020	mg/Kg wet	0.0200		112	70-130			
4-Methyl-2-pentanone (MIBK)	0.219	0.020	mg/Kg wet	0.200		110	70-130			
Naphthalene	0.0152	0.0040	mg/Kg wet	0.0200		75.8	70-130			
n-Propylbenzene	0.0210	0.0020	mg/Kg wet	0.0200		105	70-130			
Styrene	0.0218	0.0020	mg/Kg wet	0.0200		109	70-130			
1,1,1,2-Tetrachloroethane	0.0209	0.0020	mg/Kg wet	0.0200		104	70-130			
1,1,2,2-Tetrachloroethane	0.0210	0.0010	mg/Kg wet	0.0200		105	70-130			
Tetrachloroethylene	0.0248	0.0020	mg/Kg wet	0.0200		124	70-130			
Tetrahydrofuran	0.0213	0.010	mg/Kg wet	0.0200		107	70-130			
Toluene	0.0206	0.0020	mg/Kg wet	0.0200		103	70-130			
1,2,3-Trichlorobenzene	0.0171	0.0020	mg/Kg wet	0.0200		85.7	70-130			
1,2,4-Trichlorobenzene	0.0174	0.0020	mg/Kg wet	0.0200		87.2	70-130			
1,1,1-Trichloroethane	0.0224	0.0020	mg/Kg wet	0.0200		112	70-130			
1,1,2-Trichloroethane	0.0238	0.0020	mg/Kg wet	0.0200		119	70-130			
Trichloroethylene	0.0194	0.0020	mg/Kg wet	0.0200		96.8	70-130			
Trichlorofluoromethane (Freon 11)	0.0227	0.010	mg/Kg wet	0.0200		113	70-130			
1,2,3-Trichloropropane	0.0212	0.0020	mg/Kg wet	0.0200		106	70-130			
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	0.0222	0.010	mg/Kg wet	0.0200		111	70-130			
1,2,4-Trimethylbenzene	0.0190	0.0020	mg/Kg wet	0.0200		95.0	70-130			
1,3,5-Trimethylbenzene	0.0215	0.0020	mg/Kg wet	0.0200		107	70-130			
Vinyl Chloride	0.0209	0.010	mg/Kg wet	0.0200		104	70-130			
m+p Xylene	0.0424	0.0040	mg/Kg wet	0.0400		106	70-130			
o-Xylene	0.0208	0.0020	mg/Kg wet	0.0200		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	*0.0488*		mg/Kg wet	0.0500		97.6	70-130			
Surrogate: Toluene-d8	*0.0471*		mg/Kg wet	0.0500		94.2	70-130			
Surrogate: 4-Bromofluorobenzene	*0.0498*		mg/Kg wet	0.0500		99.5	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 B183764 - SW-846 3546										
Blank (B183764-BLK1)				Prepared: 08/10/17 Analyzed: 08/11/17						
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	*2.74*		mg/Kg wet	3.33		82.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: p-Terphenyl-d14	*2.59*		mg/Kg wet	3.33		77.7	30-130			
LCS (B183764-BS1)				Prepared: 08/10/17 Analyzed: 08/11/17						
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.3	40-140			
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Benzo(g,h,i)perylene	0.817	0.17	mg/Kg wet	1.67		49.0	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Chrysene	0.966	0.17	mg/Kg wet	1.67		58.0	40-140			
Dibenz(a,h)anthracene	0.923	0.17	mg/Kg wet	1.67		55.4	40-140			
Fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Fluorene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Indeno(1,2,3-cd)pyrene	0.865	0.17	mg/Kg wet	1.67		51.9	40-140			
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Surrogate: Nitrobenzene-d5	*2.66*		mg/Kg wet	3.33		79.9	30-130			
Surrogate: 2-Fluorobiphenyl	*2.59*		mg/Kg wet	3.33		77.6	30-130			
Surrogate: p-Terphenyl-d14	*2.51*		mg/Kg wet	3.33		75.4	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 B183764 - SW-846 3546											
LCS Dup (B183764-BSD1)				Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.9		40-140	5.41	30	
Acenaphthylene	1.01	0.17	mg/Kg wet	1.67		60.8		40-140	0.884	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9		40-140	3.78	30	
Benzo(a)anthracene	0.981	0.17	mg/Kg wet	1.67		58.8		40-140	5.17	30	
Benzo(a)pyrene	1.15	0.17	mg/Kg wet	1.67		69.2		40-140	0.0866	30	
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	0.126	30	
Benzo(g,h,i)perylene	0.826	0.17	mg/Kg wet	1.67		49.6		40-140	1.10	30	
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		68.8		40-140	4.24	30	
Chrysene	0.902	0.17	mg/Kg wet	1.67		54.1		40-140	6.85	30	
Dibenz(a,h)anthracene	0.914	0.17	mg/Kg wet	1.67		54.8		40-140	0.944	30	
Fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.6		40-140	1.99	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.6		40-140	4.24	30	
Indeno(1,2,3-cd)pyrene	0.842	0.17	mg/Kg wet	1.67		50.5		40-140	2.70	30	
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.3		40-140	0.0292	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5		40-140	2.71	30	
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		64.5		40-140	4.84	30	
Pyrene	0.998	0.17	mg/Kg wet	1.67		59.9		40-140	6.75	30	
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.2		30-130			
Surrogate: 2-Fluorobiphenyl	*2.47*		mg/Kg wet	3.33		74.2		30-130			
Surrogate: p-Terphenyl-d14	*2.29*		mg/Kg wet	3.33		68.6		30-130			
Matrix Spike (B183764-MS1)	**Source: 17H0196-03**			Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	0.975	0.18	mg/Kg dry	1.81	ND	53.9		40-140			
Acenaphthylene	0.962	0.18	mg/Kg dry	1.81	0.132	45.8		40-140			
Anthracene	1.09	0.18	mg/Kg dry	1.81	0.204	49.0		40-140			
Benzo(a)anthracene	1.41	0.18	mg/Kg dry	1.81	0.729	**37.6**	*	40-140			MS-09
Benzo(a)pyrene	1.66	0.18	mg/Kg dry	1.81	0.819	46.5		40-140			
Benzo(b)fluoranthene	1.90	0.18	mg/Kg dry	1.81	1.08	45.3		40-140			
Benzo(g,h,i)perylene	1.11	0.18	mg/Kg dry	1.81	0.491	**34.3**	*	40-140			MS-09
Benzo(k)fluoranthene	1.40	0.18	mg/Kg dry	1.81	0.343	58.4		40-140			
Chrysene	1.29	0.18	mg/Kg dry	1.81	0.633	**36.2**	*	40-140			MS-09
Dibenz(a,h)anthracene	0.864	0.18	mg/Kg dry	1.81	0.144	**39.8**	*	40-140			MS-22
Fluoranthene	2.25	0.18	mg/Kg dry	1.81	1.62	**34.8**	*	40-140			MS-09
Fluorene	0.996	0.18	mg/Kg dry	1.81	0.0604	51.7		40-140			
Indeno(1,2,3-cd)pyrene	1.32	0.18	mg/Kg dry	1.81	0.534	43.7		40-140			
2-Methylnaphthalene	0.999	0.18	mg/Kg dry	1.81	ND	55.2		40-140			
Naphthalene	0.945	0.18	mg/Kg dry	1.81	ND	52.2		40-140			
Phenanthrene	1.62	0.18	mg/Kg dry	1.81	0.888	40.2		40-140			
Pyrene	2.10	0.18	mg/Kg dry	1.81	1.65	**24.8**	*	40-140			MS-09
Surrogate: Nitrobenzene-d5	*2.35*		mg/Kg dry	3.62		65.0		30-130			
Surrogate: 2-Fluorobiphenyl	*2.12*		mg/Kg dry	3.62		58.5		30-130			
Surrogate: p-Terphenyl-d14	*2.20*		mg/Kg dry	3.62		60.8		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 B183764 - SW-846 3546											
Matrix Spike Dup (B183764-MSD1)		**Source: 17H0196-03**		Prepared: 08/10/17 Analyzed: 08/11/17							
Acenaphthene	0.970	0.18	mg/Kg dry	1.81	ND	53.6		40-140	0.595	30	
Acenaphthylene	0.961	0.18	mg/Kg dry	1.81	0.132	45.8		40-140	0.113	30	
Anthracene	1.09	0.18	mg/Kg dry	1.81	0.204	48.7		40-140	0.532	30	
Benzo(a)anthracene	1.35	0.18	mg/Kg dry	1.81	0.729	**34.6**	*	40-140	3.96	30	MS-09
Benzo(a)pyrene	1.64	0.18	mg/Kg dry	1.81	0.819	45.1		40-140	1.60	30	
Benzo(b)fluoranthene	1.69	0.18	mg/Kg dry	1.81	1.08	**33.7**	*	40-140	11.7	30	MS-22
Benzo(g,h,i)perylene	1.19	0.18	mg/Kg dry	1.81	0.491	**38.9**	*	40-140	7.15	30	MS-09
Benzo(k)fluoranthene	1.50	0.18	mg/Kg dry	1.81	0.343	64.1		40-140	7.13	30	
Chrysene	1.27	0.18	mg/Kg dry	1.81	0.633	**35.1**	*	40-140	1.44	30	MS-09
Dibenz(a,h)anthracene	0.974	0.18	mg/Kg dry	1.81	0.144	45.9		40-140	12.0	30	
Fluoranthene	2.09	0.18	mg/Kg dry	1.81	1.62	**25.6**	*	40-140	7.71	30	MS-09
Fluorene	1.00	0.18	mg/Kg dry	1.81	0.0604	52.2		40-140	0.869	30	
Indeno(1,2,3-cd)pyrene	1.43	0.18	mg/Kg dry	1.81	0.534	49.7		40-140	7.90	30	
2-Methylnaphthalene	1.06	0.18	mg/Kg dry	1.81	ND	58.8		40-140	6.35	30	
Naphthalene	1.00	0.18	mg/Kg dry	1.81	ND	55.4		40-140	5.87	30	
Phenanthrene	1.49	0.18	mg/Kg dry	1.81	0.888	**33.1**	*	40-140	8.26	30	MS-22
Pyrene	1.97	0.18	mg/Kg dry	1.81	1.65	**17.9**	*	40-140	6.17	30	MS-09
Surrogate: Nitrobenzene-d5	*2.54*		mg/Kg dry	3.62		70.3		30-130			
Surrogate: 2-Fluorobiphenyl	*2.16*		mg/Kg dry	3.62		59.6		30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg dry	3.62		64.3		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 B183939 - SW-846 3540C										
Blank (B183939-BLK1)				Prepared: 08/12/17 Analyzed: 08/15/17						
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	*0.213*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.5	30-150			
LCS (B183939-BS1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		100	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.5	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.8	40-140			
Surrogate: Decachlorobiphenyl	*0.223*		mg/Kg wet	0.200		112	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	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		95.4	30-150			
LCS Dup (B183939-BSD1)				Prepared: 08/12/17 Analyzed: 08/15/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	19.2	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.4	40-140	10.7	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	19.5	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.6	40-140	16.0	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.157*		mg/Kg wet	0.200		78.5	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 B183939 - SW-846 3540C											
Matrix Spike (B183939-MS1)		**Source: 17H0196-03**		Prepared: 08/12/17 Analyzed: 08/16/17							
Aroclor-1016	0.25	0.11	mg/Kg dry	0.217	ND	117		40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.217	ND	99.9		40-140			
Aroclor-1260	0.34	0.11	mg/Kg dry	0.217	ND	**156**	*	40-140			MS-22
Aroclor-1260 [2C]	0.30	0.11	mg/Kg dry	0.217	ND	139		40-140			
Surrogate: Decachlorobiphenyl	*0.204*		mg/Kg dry	0.217		93.8		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg dry	0.217		88.5		30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.217		93.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg dry	0.217		83.0		30-150			
Matrix Spike Dup (B183939-MSD1)		**Source: 17H0196-03**		Prepared: 08/12/17 Analyzed: 08/16/17							
Aroclor-1016	0.28	0.11	mg/Kg dry	0.217	ND	129		40-140	10.5	50	
Aroclor-1016 [2C]	0.28	0.11	mg/Kg dry	0.217	ND	127		40-140	23.9	50	
Aroclor-1260	0.28	0.11	mg/Kg dry	0.217	ND	130		40-140	18.2	50	
Aroclor-1260 [2C]	0.27	0.11	mg/Kg dry	0.217	ND	123		40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg dry	0.217		99.3		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.217		90.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.215*		mg/Kg dry	0.217		99.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.195*		mg/Kg dry	0.217		89.9		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 B183762 - SW-846 3546										
Blank (B183762-BLK1)				Prepared & Analyzed: 08/10/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.14*		mg/Kg wet	3.33		64.1	50-150			
LCS (B183762-BS1)				Prepared & Analyzed: 08/10/17						
CT ETPH	20.7	10	mg/Kg wet	33.3		62.1	60-120			
Surrogate: o-Terphenyl	*2.13*		mg/Kg wet	3.33		64.0	50-150			
LCS Dup (B183762-BSD1)				Prepared & Analyzed: 08/10/17						
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8	60-120	4.31	30	
Surrogate: o-Terphenyl	*2.26*		mg/Kg wet	3.33		67.8	50-150			
Matrix Spike (B183762-MS1)	**Source: 17H0196-03**			Prepared: 08/10/17 Analyzed: 08/11/17						
CT ETPH	162	54	mg/Kg dry	36.2	140	61.0	50-150			
Surrogate: o-Terphenyl	*2.60*		mg/Kg dry	3.62		71.9	50-150			
Matrix Spike Dup (B183762-MSD1)	**Source: 17H0196-03**			Prepared: 08/10/17 Analyzed: 08/11/17						
CT ETPH	174	54	mg/Kg dry	36.2	140	92.6	50-150	6.80	30	
Surrogate: o-Terphenyl	*2.75*		mg/Kg dry	3.62		76.1	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 B183650 - % Solids										
Duplicate (B183650-DUP1)		**Source: 17H0196-03**		Prepared: 08/09/17 Analyzed: 08/10/17						
% Solids	91.7		% Wt		92.1			0.435	20	

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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.
E	Reported result is estimated. Value reported over verified calibration range.
MS-09	Matrix spike recovery and/or matrix spike duplicate 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.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

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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
trans-1,4-Dichloro-2-butene	NY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8260C in Soil	
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
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

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

17H0196

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	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC2-SO-2-1	8/3/16	9:10		X	S	U	X	X	X	X			
02	WS-AOC2-SO-2-2		9:11					X	X	X	X			
03	WS-AOC2-SO-3-1		9:35					X	X	X	X			
04	WS-AOC2-SO-3-2		9:36					X	X	X	X			
05	WS-AOC2-SO-1-1		10:35					X	X	X	X			
06	WS-AOC2-SO-1-2		10:36					X	X	X	X			
07	WS-AOC2-SO-4-1		10:55					X	X	X	X			
08	WS-AOC2-SO-4-2		10:56					X	X	X	X			
09	TRIP BLANK										X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC2-SO-3-1 (MS-MSD) only for PCB and PAH!
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:
Shankar Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:56
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature) 3.1°, 4.7	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.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

8/3/17 1645

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17H0196

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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) PCB										# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC2-SO-DUP-45	8/3/17			X	S	U	X												
11	WS-AOC2-SO-DUP-46	8/3/17			X	S	U	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]	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[signature]	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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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 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 ___

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.1°C, 4.7°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~~ T On COC? ~~NA~~ T
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	20
Meoh-	9	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	18	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/3/17 1645	
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: 17H0196

Laboratory Sample ID(s):

17H0196-01 thru 17H0196-11

Sample Date(s):

08/03/2017

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:** **08/17/17**

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 25, 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: 17H0197

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: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0197

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-12E-AS-3	17H0197-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-4	17H0197-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-54	17H0197-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-55	17H0197-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-56	17H0197-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-57	17H0197-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-58	17H0197-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-59	17H0197-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-60	17H0197-09	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-61	17H0197-10	Product/Solid		SW-846 8082A	
WS-AOC7-AS-32	17H0197-11	Product/Solid		SW-846 8082A	
WS-AOC7-AS-33	17H0197-12	Product/Solid		SW-846 8082A	
WS-AOC7-AS-24	17H0197-13	Product/Solid		SW-846 8082A	
WS-AOC7-AS-23	17H0197-14	Product/Solid		SW-846 8082A	
WS-AOC7-AS-16	17H0197-15	Product/Solid		SW-846 8082A	
WS-AOC7-AS-29	17H0197-16	Product/Solid		SW-846 8082A	
WS-AOC7-AS-30	17H0197-17	Product/Solid		SW-846 8082A	
WS-AOC7-AS-27	17H0197-18	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-1	17H0197-19	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-2	17H0197-20	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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-3 Sampled: 8/3/2017 08:40

Sample ID: 17H0197-01

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	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 17:20
Decachlorobiphenyl [2]	110	30-150		8/24/17 17:20
Tetrachloro-m-xylene [1]	107	30-150		8/24/17 17:20
Tetrachloro-m-xylene [2]	106	30-150		8/24/17 17:20

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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-4 Sampled: 8/3/2017 08:45

Sample ID: 17H0197-02

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	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.9	30-150		8/24/17 17:38
Decachlorobiphenyl [2]	93.6	30-150		8/24/17 17:38
Tetrachloro-m-xylene [1]	103	30-150		8/24/17 17:38
Tetrachloro-m-xylene [2]	102	30-150		8/24/17 17:38

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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-54 Sampled: 8/3/2017 08:50

Sample ID: 17H0197-03

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	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1260 [2]	3.2	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 17:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.9	30-150		8/24/17 17:56
Decachlorobiphenyl [2]	92.9	30-150		8/24/17 17:56
Tetrachloro-m-xylene [1]	106	30-150		8/24/17 17:56
Tetrachloro-m-xylene [2]	107	30-150		8/24/17 17:56

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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-55 Sampled: 8/3/2017 08:55

Sample ID: 17H0197-04

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	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		8/24/17 18:15
Decachlorobiphenyl [2]	92.7	30-150		8/24/17 18:15
Tetrachloro-m-xylene [1]	112	30-150		8/24/17 18:15
Tetrachloro-m-xylene [2]	113	30-150		8/24/17 18:15

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-56 Sampled: 8/3/2017 09:00

Sample ID: 17H0197-05

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	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1254 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.7	30-150		8/24/17 18:33
Decachlorobiphenyl [2]	86.1	30-150		8/24/17 18:33
Tetrachloro-m-xylene [1]	108	30-150		8/24/17 18:33
Tetrachloro-m-xylene [2]	109	30-150		8/24/17 18:33

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-57 Sampled: 8/3/2017 09:05

Sample ID: 17H0197-06

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	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1221 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1232 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1242 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1248 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1254 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1260 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1262 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG
Aroclor-1268 [1]	ND	0.98	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 18:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.8	30-150		8/24/17 18:51
Decachlorobiphenyl [2]	90.8	30-150		8/24/17 18:51
Tetrachloro-m-xylene [1]	113	30-150		8/24/17 18:51
Tetrachloro-m-xylene [2]	114	30-150		8/24/17 18:51

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-58 Sampled: 8/3/2017 09:10

Sample ID: 17H0197-07

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	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		8/24/17 19:10
Decachlorobiphenyl [2]	85.6	30-150		8/24/17 19:10
Tetrachloro-m-xylene [1]	108	30-150		8/24/17 19:10
Tetrachloro-m-xylene [2]	107	30-150		8/24/17 19:10

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-59 Sampled: 8/3/2017 09:15

Sample ID: 17H0197-08

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	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1221 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1232 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1242 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1248 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1254 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1260 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1262 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG
Aroclor-1268 [1]	ND	1.0	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.8	30-150		8/24/17 19:28
Decachlorobiphenyl [2]	78.1	30-150		8/24/17 19:28
Tetrachloro-m-xylene [1]	109	30-150		8/24/17 19:28
Tetrachloro-m-xylene [2]	110	30-150		8/24/17 19:28

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-60 Sampled: 8/3/2017 09:25

Sample ID: 17H0197-09

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	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1221 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1232 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1242 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1248 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1254 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1260 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1262 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG
Aroclor-1268 [1]	ND	0.90	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 19:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.9	30-150		8/24/17 19:46
Decachlorobiphenyl [2]	91.7	30-150		8/24/17 19:46
Tetrachloro-m-xylene [1]	117	30-150		8/24/17 19:46
Tetrachloro-m-xylene [2]	118	30-150		8/24/17 19:46

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-61 Sampled: 8/3/2017 09:30

Sample ID: 17H0197-10

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	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 20:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 20:54
Decachlorobiphenyl [2]	104	30-150		8/24/17 20:54
Tetrachloro-m-xylene [1]	118	30-150		8/24/17 20:54
Tetrachloro-m-xylene [2]	119	30-150		8/24/17 20:54

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-32 Sampled: 8/3/2017 14:33

Sample ID: 17H0197-11

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	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1260 [1]	0.48	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		8/24/17 21:12
Decachlorobiphenyl [2]	68.8	30-150		8/24/17 21:12
Tetrachloro-m-xylene [1]	93.6	30-150		8/24/17 21:12
Tetrachloro-m-xylene [2]	82.3	30-150		8/24/17 21:12

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-33 Sampled: 8/3/2017 14:34

Sample ID: 17H0197-12

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	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1260 [1]	0.52	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:31	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.2	30-150		8/24/17 21:31
Decachlorobiphenyl [2]	65.7	30-150		8/24/17 21:31
Tetrachloro-m-xylene [1]	86.1	30-150		8/24/17 21:31
Tetrachloro-m-xylene [2]	73.0	30-150		8/24/17 21:31

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-24 Sampled: 8/3/2017 14:32

Sample ID: 17H0197-13

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	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 21:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.9	30-150		8/24/17 21:49
Decachlorobiphenyl [2]	87.1	30-150		8/24/17 21:49
Tetrachloro-m-xylene [1]	91.3	30-150		8/24/17 21:49
Tetrachloro-m-xylene [2]	82.4	30-150		8/24/17 21:49

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-23 Sampled: 8/3/2017 14:30

Sample ID: 17H0197-14

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	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:07	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.3	30-150		8/24/17 22:07
Decachlorobiphenyl [2]	91.0	30-150		8/24/17 22:07
Tetrachloro-m-xylene [1]	97.4	30-150		8/24/17 22:07
Tetrachloro-m-xylene [2]	86.1	30-150		8/24/17 22:07

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-16 Sampled: 8/3/2017 14:00

Sample ID: 17H0197-15

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	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1260 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 22:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/24/17 22:25
Decachlorobiphenyl [2]	103	30-150		8/24/17 22:25
Tetrachloro-m-xylene [1]	112	30-150		8/24/17 22:25
Tetrachloro-m-xylene [2]	115	30-150		8/24/17 22:25

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-29 Sampled: 8/3/2017 13:56

Sample ID: 17H0197-16

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	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 22:44	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.7	30-150		8/24/17 22:44
Decachlorobiphenyl [2]	81.4	30-150		8/24/17 22:44
Tetrachloro-m-xylene [1]	78.4	30-150		8/24/17 22:44
Tetrachloro-m-xylene [2]	68.3	30-150		8/24/17 22:44

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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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-30 Sampled: 8/3/2017 13:58

Sample ID: 17H0197-17

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	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.0	30-150		8/24/17 23:02
Decachlorobiphenyl [2]	82.2	30-150		8/24/17 23:02
Tetrachloro-m-xylene [1]	81.6	30-150		8/24/17 23:02
Tetrachloro-m-xylene [2]	67.0	30-150		8/24/17 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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC7-AS-27 Sampled: 8/3/2017 13:47

Sample ID: 17H0197-18

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	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1221 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1232 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1242 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1248 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1254 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1260 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1262 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG
Aroclor-1268 [1]	ND	0.088	mg/Kg	1		SW-846 8082A	8/11/17	8/24/17 23:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/24/17 23:20
Decachlorobiphenyl [2]	95.6	30-150		8/24/17 23:20
Tetrachloro-m-xylene [1]	97.4	30-150		8/24/17 23:20
Tetrachloro-m-xylene [2]	86.4	30-150		8/24/17 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: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-1 Sampled: 8/3/2017 08:30

Sample ID: 17H0197-19

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	8/11/17	8/24/17 23:38	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/24/17 23:38
Decachlorobiphenyl [2]	108	30-150		8/24/17 23:38
Tetrachloro-m-xylene [1]	119	30-150		8/24/17 23:38
Tetrachloro-m-xylene [2]	119	30-150		8/24/17 23:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0197

Date Received: 8/3/2017

Field Sample #: WS-AOC-12E-AS-2 Sampled: 8/3/2017 08:35

Sample ID: 17H0197-20

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	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1221 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1232 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1242 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1248 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1254 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1260 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1262 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG
Aroclor-1268 [1]	ND	0.92	mg/Kg	10		SW-846 8082A	8/11/17	8/24/17 23:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/24/17 23:57
Decachlorobiphenyl [2]	84.5	30-150		8/24/17 23:57
Tetrachloro-m-xylene [1]	98.5	30-150		8/24/17 23:57
Tetrachloro-m-xylene [2]	99.2	30-150		8/24/17 23:57

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0197-01 [WS-AOC-12E-AS-3]	B183926	2.09	10.0	08/11/17
17H0197-02 [WS-AOC-12E-AS-4]	B183926	2.01	10.0	08/11/17
17H0197-03 [WS-AOC-12E-AS-54]	B183926	2.15	10.0	08/11/17
17H0197-04 [WS-AOC-12E-AS-55]	B183926	2.17	10.0	08/11/17
17H0197-05 [WS-AOC-12E-AS-56]	B183926	2.10	10.0	08/11/17
17H0197-06 [WS-AOC-12E-AS-57]	B183926	2.05	10.0	08/11/17
17H0197-07 [WS-AOC-12E-AS-58]	B183926	2.17	10.0	08/11/17
17H0197-08 [WS-AOC-12E-AS-59]	B183926	2.00	10.0	08/11/17
17H0197-09 [WS-AOC-12E-AS-60]	B183926	2.23	10.0	08/11/17
17H0197-10 [WS-AOC-12E-AS-61]	B183926	2.09	10.0	08/11/17
17H0197-11 [WS-AOC7-AS-32]	B183926	2.08	10.0	08/11/17
17H0197-12 [WS-AOC7-AS-33]	B183926	2.12	10.0	08/11/17
17H0197-13 [WS-AOC7-AS-24]	B183926	2.05	10.0	08/11/17
17H0197-14 [WS-AOC7-AS-23]	B183926	2.02	10.0	08/11/17
17H0197-15 [WS-AOC7-AS-16]	B183926	2.16	10.0	08/11/17
17H0197-16 [WS-AOC7-AS-29]	B183926	2.27	10.0	08/11/17
17H0197-17 [WS-AOC7-AS-30]	B183926	2.16	10.0	08/11/17
17H0197-18 [WS-AOC7-AS-27]	B183926	2.26	10.0	08/11/17
17H0197-19 [WS-AOC-12E-AS-1]	B183926	2.02	10.0	08/11/17
17H0197-20 [WS-AOC-12E-AS-2]	B183926	2.17	10.0	08/11/17

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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 B183926 - SW-846 3540C										
Blank (B183926-BLK1)				Prepared: 08/11/17 Analyzed: 08/24/17						
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	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.979*		mg/Kg	1.00		97.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.815*		mg/Kg	1.00		81.5	30-150			
LCS (B183926-BS1)				Prepared: 08/11/17 Analyzed: 08/24/17						
Aroclor-1016	0.82	0.10	mg/Kg	1.00		81.6	40-140			
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		80.3	40-140			
Aroclor-1260	0.76	0.10	mg/Kg	1.00		76.2	40-140			
Aroclor-1260 [2C]	0.74	0.10	mg/Kg	1.00		73.5	40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.738*		mg/Kg	1.00		73.8	30-150			
LCS Dup (B183926-BSD1)				Prepared: 08/11/17 Analyzed: 08/24/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.6	40-140	2.48	30	
Aroclor-1016 [2C]	0.81	0.10	mg/Kg	1.00		80.7	40-140	0.504	30	
Aroclor-1260	0.75	0.10	mg/Kg	1.00		75.4	40-140	1.04	30	
Aroclor-1260 [2C]	0.74	0.10	mg/Kg	1.00		73.6	40-140	0.0700	30	
Surrogate: Decachlorobiphenyl	*1.00*		mg/Kg	1.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.842*		mg/Kg	1.00		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.761*		mg/Kg	1.00		76.1	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 B183926 - SW-846 3540C										
Matrix Spike (B183926-MS1)		**Source: 17H0197-01**		Prepared: 08/11/17 Analyzed: 08/25/17						
Aroclor-1016	1.1	0.94	mg/Kg	0.939	ND	122	40-140			
Aroclor-1016 [2C]	1.2	0.94	mg/Kg	0.939	ND	125	40-140			
Aroclor-1260	0.92	0.94	mg/Kg	0.939	ND	98.5	40-140			
Aroclor-1260 [2C]	1.0	0.94	mg/Kg	0.939	ND	106	40-140			
Surrogate: Decachlorobiphenyl	*0.922*		mg/Kg	0.939		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	0.939		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	0.939		113	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.06*		mg/Kg	0.939		113	30-150			
Matrix Spike Dup (B183926-MSD1)		**Source: 17H0197-01**		Prepared: 08/11/17 Analyzed: 08/25/17						
Aroclor-1016	1.1	0.96	mg/Kg	0.962	ND	114	40-140	4.29	50	
Aroclor-1016 [2C]	1.2	0.96	mg/Kg	0.962	ND	124	40-140	1.78	50	
Aroclor-1260	0.90	0.96	mg/Kg	0.962	ND	94.1	40-140	2.19	50	
Aroclor-1260 [2C]	1.0	0.96	mg/Kg	0.962	ND	107	40-140	3.08	50	
Surrogate: Decachlorobiphenyl	*0.871*		mg/Kg	0.962		90.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.849*		mg/Kg	0.962		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*1.00*		mg/Kg	0.962		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.02*		mg/Kg	0.962		106	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-54

Lab Sample ID: 17H0197-03

Date(s) Analyzed: 08/24/2017 08/24/2017

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	2.9	
	2	0.000	0.000	0.000	3.2	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-AS-32

Lab Sample ID: 17H0197-11

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.48	
	2	0.000	0.000	0.000	0.42	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC7-AS-33

Lab Sample ID: 17H0197-12

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.52	
	2	0.000	0.000	0.000	0.45	14.4

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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.

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 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

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

17H0197

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	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-12E-AS-3	8/3/17	0840		X	O	U	X			
02	WS-AOC 12E-AS-4		0845								
03	WS-AOC 12E-AS-54		0850								
04	WS-AOC-12E-AS-55		0855								
05	WS-AOC-12E-AS-56		0900								
06	WS-AOC-12E-AS-57		0905								
07	WS-AOC-12E-AS-58		0910								
08	WS-AOC-12E-AS-59		0915								
09	WS-AOC 12E-AS-60		0925								
10	WS-AOC 12E-AS-61		0930								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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) Potable media

[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:
Abhishek 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) 3.1, 4.7	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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17H0197

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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	PCBs Soxhlet											# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC7-AS-32	8/3/17	1433		X	O	U	X													
12	WS-AOC-7-AS-33		1434																		
13	WS-AOC7-AS-24		1432																		
14	WS-AOC7-AS-23		1430																		
15	WS-AOC-7-AS-16		1400																		
16	WS-AOC-7-AS-29		1356																		
17	WS-AOC-7-AS-30		1358																		
18	WS-AOC-7-AS-27		1347																		
19	WS-AOC12E-AS-1		0830																		
20	WS-AOC12E-AS-2		0835																		

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) Porous Media

[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:
Aranya Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature)	Date/Time:
[signature]	8/3/17 16:45
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 ___

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.1°C, 4.7°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? 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	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	20
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: 17H0197

Laboratory Sample ID(s):

17H0197-01 thru 17H0197-20

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:** **08/25/17**

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

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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-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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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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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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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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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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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

7H0199

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
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				

# 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:
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:
[signature]	8-3-17 14:58
Relinquished by: (signature)	Date/Time:
[signature]	8-3-17 4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[signature]	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:
Aparna 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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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 ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.1°C, 4.7°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	
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
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 21, 2017

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

Project Location: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0394

Enclosed are results of analyses for samples received by the laboratory on August 8, 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: 8/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0394

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-2	17H0394-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-3	17H0394-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-4	17H0394-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-CO-3	17H0394-04	Concrete		SW-846 8082A	
Equipment blank - 32	17H0394-05	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment blank - 33	17H0394-06	Equipment Blank Water		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

17H0394-01[WS-AOC14-SE-2], 17H0394-03[WS-AOC14-SE-4]

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-1260 [2C]

17H0394-05[Equipment blank - 32], 17H0394-06[Equipment blank - 33], B183981-BLK1, B183981-BS1, B183981-BSD1

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: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2 | Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Acenaphthylene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Anthracene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(a)anthracene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(a)pyrene	2.0	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(b)fluoranthene	2.6	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(g,h,i)perylene	1.2	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Benzo(k)fluoranthene	0.82	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Chrysene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Dibenz(a,h)anthracene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Fluoranthene	2.8	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Fluorene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Indeno(1,2,3-cd)pyrene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
2-Methylnaphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Naphthalene	ND	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Phenanthrene	1.4	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL
Pyrene	4.1	0.73	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:07	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	94.8	30-130		8/16/17 20:07
2-Fluorobiphenyl	72.2	30-130		8/16/17 20:07
p-Terphenyl-d14	85.8	30-130		8/16/17 20:07

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Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2 | Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1248 [2]	0.96	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1254 [2]	0.97	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1260 [2]	0.64	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		8/16/17 19:27
Decachlorobiphenyl [2]	91.1	30-150		8/16/17 19:27
Tetrachloro-m-xylene [1]	92.0	30-150		8/16/17 19:27
Tetrachloro-m-xylene [2]	99.1	30-150		8/16/17 19:27

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Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2
Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3000	1100	mg/Kg dry	25		CTDEP ETPH	8/14/17	8/17/17 9:45	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/17/17 9:45

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Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-2
Sampled: 8/8/2017 12:00

Sample ID: 17H0394-01

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	23.4		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-3
Sampled: 8/8/2017 10:00
Sample ID: 17H0394-02
Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Acenaphthylene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Anthracene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(a)anthracene	2.1	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(a)pyrene	2.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(b)fluoranthene	3.8	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(g,h,i)perylene	1.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Benzo(k)fluoranthene	1.3	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Chrysene	2.2	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Dibenz(a,h)anthracene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Fluoranthene	3.6	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Fluorene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Indeno(1,2,3-cd)pyrene	1.7	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
2-Methylnaphthalene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Naphthalene	ND	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Phenanthrene	1.8	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL
Pyrene	5.0	0.65	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 20:34	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.8	30-130		8/16/17 20:34
2-Fluorobiphenyl	72.3	30-130		8/16/17 20:34
p-Terphenyl-d14	85.6	30-130		8/16/17 20:34

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-3 | Sampled: 8/8/2017 10:00

Sample ID: 17H0394-02

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	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1248 [2]	1.9	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1254 [2]	1.7	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1260 [2]	0.80	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		8/16/17 19:40
Decachlorobiphenyl [2]	94.6	30-150		8/16/17 19:40
Tetrachloro-m-xylene [1]	91.0	30-150		8/16/17 19:40
Tetrachloro-m-xylene [2]	96.4	30-150		8/16/17 19:40

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Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-3
Sampled: 8/8/2017 10:00
Sample ID: 17H0394-02
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	3200	380	mg/Kg dry	10		CTDEP ETPH	8/14/17	8/17/17 8:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.5	50-150		8/17/17 8:52

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Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-3
Sampled: 8/8/2017 10:00

Sample ID: 17H0394-02

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	26.0		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-4 | Sampled: 8/8/2017 14:00

Sample ID: 17H0394-03

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	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Acenaphthylene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Anthracene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(a)anthracene	1.4	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(a)pyrene	1.8	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(b)fluoranthene	2.4	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(g,h,i)perylene	1.2	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Benzo(k)fluoranthene	0.81	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Chrysene	1.3	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Dibenz(a,h)anthracene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Fluoranthene	2.1	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Fluorene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Indeno(1,2,3-cd)pyrene	1.2	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
2-Methylnaphthalene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Naphthalene	ND	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Phenanthrene	1.0	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL
Pyrene	3.5	0.68	mg/Kg dry	1		SW-846 8270D	8/14/17	8/16/17 21:00	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.5	30-130		8/16/17 21:00
2-Fluorobiphenyl	65.7	30-130		8/16/17 21:00
p-Terphenyl-d14	83.5	30-130		8/16/17 21:00

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-4 | Sampled: 8/8/2017 14:00

Sample ID: 17H0394-03

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	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1221 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1232 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1242 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1248 [2]	0.93	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1254 [2]	1.0	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1260 [2]	0.70	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1262 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL
Aroclor-1268 [1]	ND	0.40	mg/Kg dry	5		SW-846 8082A	8/14/17	8/16/17 19:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.2	30-150		8/16/17 19:53
Decachlorobiphenyl [2]	84.2	30-150		8/16/17 19:53
Tetrachloro-m-xylene [1]	84.2	30-150		8/16/17 19:53
Tetrachloro-m-xylene [2]	91.3	30-150		8/16/17 19:53

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-SE-4
Sampled: 8/8/2017 14:00
Sample ID: 17H0394-03
Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	5700	2000	mg/Kg dry	50		CTDEP ETPH	8/14/17	8/17/17 10:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/17/17 10:14

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

Project Location: English Station
Sample Description:
Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: WS-AOC14-SE-4
Sampled: 8/8/2017 14:00

Sample ID: 17H0394-03

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	25.1		% Wt	1		SM 2540G	8/10/17	8/11/17 6:45	MRL

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: WS-AOC14-CO-3
Sampled: 8/8/2017 10:15
Sample ID: 17H0394-04
Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 13:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/17/17 13:12
Decachlorobiphenyl [2]	106	30-150		8/17/17 13:12
Tetrachloro-m-xylene [1]	93.8	30-150		8/17/17 13:12
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 13:12

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 32 | Sampled: 8/8/2017 14:30

Sample ID: 17H0394-05

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	8/14/17	8/17/17 14:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/14/17	8/17/17 14:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		8/17/17 14:35
2-Fluorobiphenyl	84.2	30-130		8/17/17 14:35
p-Terphenyl-d14	74.8	30-130		8/17/17 14:35

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 32 | Sampled: 8/8/2017 14:30

Sample ID: 17H0394-05

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	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		8/18/17 16:18
Decachlorobiphenyl [2]	85.9	30-150		8/18/17 16:18
Tetrachloro-m-xylene [1]	81.6	30-150		8/18/17 16:18
Tetrachloro-m-xylene [2]	87.5	30-150		8/18/17 16:18

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

Project Location: English Station
Sample Description:
Work Order: 17H0394
Date Received: 8/8/2017
Field Sample #: Equipment blank - 32
Sampled: 8/8/2017 14:30
Sample ID: 17H0394-05
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	8/15/17	8/17/17 14:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.3	50-150		8/17/17 14:07

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

Project Location: English Station | Sample Description: | Work Order: 17H0394

Date Received: 8/8/2017

Field Sample #: Equipment blank - 33 | Sampled: 8/8/2017 14:45

Sample ID: 17H0394-06

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	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/14/17	8/18/17 16:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		8/18/17 16:31
Decachlorobiphenyl [2]	92.1	30-150		8/18/17 16:31
Tetrachloro-m-xylene [1]	81.2	30-150		8/18/17 16:31
Tetrachloro-m-xylene [2]	88.5	30-150		8/18/17 16:31

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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
17H0394-01 [WS-AOC14-SE-2]	B184016	30.0	1.00	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184016	30.0	1.00	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184016	30.0	1.00	08/14/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B184126	1000	1.00	08/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0394-01 [WS-AOC14-SE-2]	B183777	08/10/17
17H0394-02 [WS-AOC14-SE-3]	B183777	08/10/17
17H0394-03 [WS-AOC14-SE-4]	B183777	08/10/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-04 [WS-AOC14-CO-3]	B184156	2.09	10.0	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-01 [WS-AOC14-SE-2]	B184053	10.2	10.0	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184053	10.0	10.0	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184053	10.0	10.0	08/14/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B183981	1000	10.0	08/14/17
17H0394-06 [Equipment blank - 33]	B183981	1000	10.0	08/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0394-01 [WS-AOC14-SE-2]	B184017	30.0	1.00	08/14/17
17H0394-02 [WS-AOC14-SE-3]	B184017	30.0	1.00	08/14/17
17H0394-03 [WS-AOC14-SE-4]	B184017	30.0	1.00	08/14/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0394-05 [Equipment blank - 32]	B184392	1000	1.00	08/14/17

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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 B184017 - SW-846 3546										
Blank (B184017-BLK1)				Prepared: 08/14/17 Analyzed: 08/15/17						
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	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.40*		mg/Kg wet	3.33		72.1	30-130			
Surrogate: p-Terphenyl-d14	*3.08*		mg/Kg wet	3.33		92.5	30-130			
LCS (B184017-BS1)				Prepared: 08/14/17 Analyzed: 08/15/17						
Acenaphthene	1.19	0.17	mg/Kg wet	1.67		71.4	40-140			
Acenaphthylene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.7	40-140			
Benzo(a)anthracene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.9	40-140			
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Benzo(g,h,i)perylene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140			
Benzo(k)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Dibenz(a,h)anthracene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Naphthalene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Pyrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Surrogate: Nitrobenzene-d5	*3.01*		mg/Kg wet	3.33		90.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.86*		mg/Kg wet	3.33		85.8	30-130			
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg wet	3.33		88.1	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 B184017 - SW-846 3546										
LCS Dup (B184017-BSD1)				Prepared: 08/14/17 Analyzed: 08/15/17						
Acenaphthene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140	3.06	30	
Acenaphthylene	1.22	0.17	mg/Kg wet	1.67		73.5	40-140	4.68	30	
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	3.99	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140	4.35	30	
Benzo(a)pyrene	1.29	0.17	mg/Kg wet	1.67		77.2	40-140	0.389	30	
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	2.61	30	
Benzo(g,h,i)perylene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	18.0	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	1.24	30	
Chrysene	1.27	0.17	mg/Kg wet	1.67		76.2	40-140	2.28	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140	12.9	30	
Fluoranthene	1.23	0.17	mg/Kg wet	1.67		73.8	40-140	2.46	30	
Fluorene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140	4.59	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.5	40-140	15.5	30	
2-Methylnaphthalene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	4.83	30	
Naphthalene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140	2.69	30	
Phenanthrene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140	4.18	30	
Pyrene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	11.8	30	
Surrogate: Nitrobenzene-d5	*3.09*		mg/Kg wet	3.33		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*3.07*		mg/Kg wet	3.33		92.0	30-130			
Surrogate: p-Terphenyl-d14	*3.33*		mg/Kg wet	3.33		99.9	30-130			
Batch B184392 - SW-846 3510C										
Blank (B184392-BLK1)				Prepared: 08/14/17 Analyzed: 08/17/17						
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	*75.9*		µg/L	100		75.9	30-130			
Surrogate: 2-Fluorobiphenyl	*73.4*		µg/L	100		73.4	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 B184392 - SW-846 3510C										
LCS (B184392-BS1)				Prepared: 08/14/17 Analyzed: 08/17/17						
Acenaphthene (SIM)	43.0	7.5	µg/L	50.0		85.9	40-140			
Acenaphthylene (SIM)	42.0	7.5	µg/L	50.0		84.0	40-140			
Anthracene (SIM)	45.6	5.0	µg/L	50.0		91.3	40-140			
Benzo(a)anthracene (SIM)	44.2	1.2	µg/L	50.0		88.4	40-140			
Benzo(a)pyrene (SIM)	47.4	2.5	µg/L	50.0		94.8	40-140			
Benzo(b)fluoranthene (SIM)	47.5	1.2	µg/L	50.0		95.0	40-140			
Benzo(g,h,i)perylene (SIM)	45.4	12	µg/L	50.0		90.8	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Chrysene (SIM)	44.5	5.0	µg/L	50.0		89.0	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.3	12	µg/L	50.0		90.6	40-140			
Fluorene (SIM)	44.0	25	µg/L	50.0		88.1	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	45.2	5.0	µg/L	50.0		90.4	40-140			
2-Methylnaphthalene (SIM)	40.9	25	µg/L	50.0		81.8	40-140			
Naphthalene (SIM)	39.6	25	µg/L	50.0		79.2	40-140			
Phenanthrene (SIM)	44.8	1.2	µg/L	50.0		89.6	40-140			
Pyrene (SIM)	45.1	25	µg/L	50.0		90.2	40-140			
Surrogate: Nitrobenzene-d5	*90.8*		µg/L	100		90.8	30-130			
Surrogate: 2-Fluorobiphenyl	*98.4*		µg/L	100		98.4	30-130			
Surrogate: p-Terphenyl-d14	*85.4*		µg/L	100		85.4	30-130			
LCS Dup (B184392-BSD1)				Prepared: 08/14/17 Analyzed: 08/17/17						
Acenaphthene (SIM)	46.2	7.5	µg/L	50.0		92.4	40-140	7.29	20	
Acenaphthylene (SIM)	45.3	7.5	µg/L	50.0		90.6	40-140	7.45	20	
Anthracene (SIM)	48.8	5.0	µg/L	50.0		97.6	40-140	6.72	20	
Benzo(a)anthracene (SIM)	47.6	1.2	µg/L	50.0		95.2	40-140	7.35	20	
Benzo(a)pyrene (SIM)	51.8	2.5	µg/L	50.0		104	40-140	8.97	20	
Benzo(b)fluoranthene (SIM)	51.6	1.2	µg/L	50.0		103	40-140	8.23	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.3	40-140	9.00	20	
Benzo(k)fluoranthene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.41	20	
Chrysene (SIM)	47.8	5.0	µg/L	50.0		95.7	40-140	7.31	20	
Dibenz(a,h)anthracene (SIM)	49.8	5.0	µg/L	50.0		99.6	40-140	9.02	20	
Fluoranthene (SIM)	48.4	12	µg/L	50.0		96.9	40-140	6.78	20	
Fluorene (SIM)	47.2	25	µg/L	50.0		94.4	40-140	6.96	20	
Indeno(1,2,3-cd)pyrene (SIM)	49.5	5.0	µg/L	50.0		99.0	40-140	9.03	20	‡
2-Methylnaphthalene (SIM)	43.8	25	µg/L	50.0		87.6	40-140	6.90	20	
Naphthalene (SIM)	42.2	25	µg/L	50.0		84.4	40-140	6.36	20	
Phenanthrene (SIM)	48.1	1.2	µg/L	50.0		96.2	40-140	7.16	20	
Pyrene (SIM)	48.6	25	µg/L	50.0		97.2	40-140	7.58	20	
Surrogate: Nitrobenzene-d5	*95.8*		µg/L	100		95.8	30-130			
Surrogate: 2-Fluorobiphenyl	*108*		µg/L	100		108	30-130			
Surrogate: p-Terphenyl-d14	*88.5*		µg/L	100		88.5	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 B183981 - SW-846 3510C											
Blank (B183981-BLK1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	ND	0.040	µg/L								
Aroclor-1016 [2C]	ND	0.040	µg/L								
Aroclor-1221	ND	0.040	µg/L								
Aroclor-1221 [2C]	ND	0.040	µg/L								
Aroclor-1232	ND	0.040	µg/L								
Aroclor-1232 [2C]	ND	0.040	µg/L								
Aroclor-1242	ND	0.040	µg/L								
Aroclor-1242 [2C]	ND	0.040	µg/L								
Aroclor-1248	ND	0.040	µg/L								
Aroclor-1248 [2C]	ND	0.040	µg/L								
Aroclor-1254	ND	0.040	µg/L								
Aroclor-1254 [2C]	ND	0.040	µg/L								
Aroclor-1260	ND	0.040	µg/L								
Aroclor-1260 [2C]	ND	0.040	µg/L								R-05
Aroclor-1262	ND	0.040	µg/L								
Aroclor-1262 [2C]	ND	0.040	µg/L								
Aroclor-1268	ND	0.040	µg/L								
Aroclor-1268 [2C]	ND	0.040	µg/L								
Surrogate: Decachlorobiphenyl	*1.38*		µg/L	2.00		68.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.79*		µg/L	2.00		89.7	30-150				
Surrogate: Tetrachloro-m-xylene	*1.34*		µg/L	2.00		66.8	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.81*		µg/L	2.00		90.3	30-150				
LCS (B183981-BS1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	0.48	0.20	µg/L	0.500		96.5	40-140				
Aroclor-1016 [2C]	0.46	0.20	µg/L	0.500		92.4	40-140				
Aroclor-1260	0.39	0.20	µg/L	0.500		77.0	40-140				
Aroclor-1260 [2C]	0.38	0.20	µg/L	0.500		75.4	40-140				R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		75.2	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.63*		µg/L	2.00		81.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.76*		µg/L	2.00		87.8	30-150				
LCS Dup (B183981-BSD1)				Prepared: 08/14/17 Analyzed: 08/18/17							
Aroclor-1016	0.54	0.20	µg/L	0.500		107	40-140	10.6		20	
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140	15.8		20	
Aroclor-1260	0.44	0.20	µg/L	0.500		88.7	40-140	14.1		20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140	**24.7**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.75*		µg/L	2.00		87.6	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.92*		µg/L	2.00		96.1	30-150				
Surrogate: Tetrachloro-m-xylene	*1.78*		µg/L	2.00		89.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.95*		µg/L	2.00		97.5	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 B184053 - SW-846 3540C										
Blank (B184053-BLK1)				Prepared: 08/14/17 Analyzed: 08/16/17						
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	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		95.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS (B184053-BS1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.7	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140			
Surrogate: Decachlorobiphenyl	*0.152*		mg/Kg wet	0.200		76.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg wet	0.200		96.7	30-150			
LCS Dup (B184053-BSD1)				Prepared: 08/14/17 Analyzed: 08/16/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.6	40-140	8.87	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	6.60	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		83.3	40-140	6.40	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.9	40-140	6.66	30	
Surrogate: Decachlorobiphenyl	*0.166*		mg/Kg wet	0.200		83.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg wet	0.200		104	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 B184156 - SW-846 3540C										
Blank (B184156-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
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	*0.993*		mg/Kg	1.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.935*		mg/Kg	1.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.814*		mg/Kg	1.00		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.900*		mg/Kg	1.00		90.0	30-150			
LCS (B184156-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00		81.2	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.3	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.883*		mg/Kg	1.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.759*		mg/Kg	1.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B184156-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		87.8	40-140	7.77	30	
Aroclor-1016 [2C]	0.99	0.10	mg/Kg	1.00		99.1	40-140	8.57	30	
Aroclor-1260	0.92	0.10	mg/Kg	1.00		92.1	40-140	11.1	30	
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.893*		mg/Kg	1.00		89.3	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 B184016 - SW-846 3546										
Blank (B184016-BLK1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.32*		mg/Kg wet	3.33		99.5	50-150			
LCS (B184016-BS1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	24.4	10	mg/Kg wet	33.3		73.1	60-120			
Surrogate: o-Terphenyl	*3.08*		mg/Kg wet	3.33		92.4	50-150			
LCS Dup (B184016-BSD1)				Prepared: 08/14/17 Analyzed: 08/15/17						
CT ETPH	27.1	10	mg/Kg wet	33.3		81.3	60-120	10.7	30	
Surrogate: o-Terphenyl	*3.43*		mg/Kg wet	3.33		103	50-150			
Batch B184126 - SW-846 3510C										
Blank (B184126-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0836*		mg/L	0.100		83.6	50-150			
LCS (B184126-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	0.765	0.075	mg/L	1.00		76.5	60-120			
Surrogate: o-Terphenyl	*0.0930*		mg/L	0.100		93.0	50-150			
LCS Dup (B184126-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
CT ETPH	0.749	0.075	mg/L	1.00		74.9	60-120	2.10	30	
Surrogate: o-Terphenyl	*0.0919*		mg/L	0.100		91.9	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-2

Lab Sample ID: 17H0394-01

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.96	25.9
Aroclor-1254	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.97	31.0
Aroclor-1260	1	0.000	-0.030	0.030	0.58	
	2	0.000	-0.030	0.030	0.64	9.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-3

Lab Sample ID: 17H0394-02 Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.9	17.1
Aroclor-1254	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.7	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.80	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-4

Lab Sample ID: 17H0394-03

Date(s) Analyzed: 08/16/2017 08/16/2017

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-1248	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.93	24.1
Aroclor-1254	1	0.000	-0.030	0.030	0.84	
	2	0.000	-0.030	0.030	1.0	17.4
Aroclor-1260	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.70	4.4

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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.
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
CTDEP ETPH in Water	
CT ETPH	CT
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
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 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

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 8082A in Water	
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 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

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

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

17H0394

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Rev 04.05.12

Company Name: Weston + Sampson
Address: 273 Dividend Rd
Rocky Hill, CT 06067
Attention: Malcolm Beeler
Project Location: English Station
Sampled By: Will Sirotnak

Telephone: 860-513-1473
Project #
Client PO#

DATA DELIVERY (check all that apply)
○ FAX ○ EMAIL ○ WEBSITE
Fax #
Email: beelerm@wseinc.com
Format: ○ PDF ○ EXCEL ○ GIS
○ OTHER
○ "Enhanced Data Package"

Project Proposal Provided? (for billing purposes)
○ yes _____ proposal date

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Collection Beginning Date/Time	Collection Ending Date/Time	Composite	Grab	*Matrix Code	Conc Code	PCBs via Soxhlet	CT ETPH	PAHs									
								1											
								1											
								A											
1	WS-AOC14-Se-2	8/8/17	1200		X	S	U	X	X	X									
2	WS-AOC14-Se-3	8/8/17	1000		↓	↓	↓	X	X	X									
3	WS-AOC14-Se-4	↓	1400		↓	↓	↓	X	X	X									
4	WS-AOC14-CO-3	↓	1015		X	O	U	X											
5	Equipment blank-32	↓	1430		X	W	↓	X	X	X									
6	Equipment blank-33	↓	1445		X	W	↓	X											

Comments:
Run Se-2, Se-3, Se-4 as Solid.

Please use the following codes to let Con-Test know if a specific sample may be high in concentration in Matrix/Conc. Code Box:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

ANALYSIS REQUESTED

Dissolved Metals
○ Field Filtered
○ Lab to Filter

***Cont. Code:**
A=amber glass
G=glass
P=plastic
ST=sterile
V=vial
S=summa can
T=tedlar bag
O=Other

**Preservation
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium bisulfate
X = Na hydroxide
T = Na thiosulfate
O = Other

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

Relinquished by: (signature)	Date/Time:
8/8/17	
Received by: (signature)	Date/Time:
8/8/17	
Relinquished by: (signature)	Date/Time:
8/8/17	
Received by: (signature)	Date/Time:
Weston Test 4D 8/8/17	1615

Turnaround ‡
☑ 7-Day
☐ 10-Day
☐ Other
RUSH †
☐ †24-Hr ☐ †48-Hr
☐ †72-Hr ☐ †4-Day
† Require lab approval

Detection Limit Requirements
Massachusetts:
Connecticut: TSCA
Other:

Is your project MCP or RCP ?
○ MCP Form Required
○ RCP Form Required
○ MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC Accredited
WBE/DBE Certified

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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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 A.F. Date 8/8/17 Time 1615

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
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? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A
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.	7	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	3
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
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\A081717\A0817006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/17/17
Data File Name	A0817006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	540991	570819	-5
c - 10	1.64	544924	570819	-5
c - 12	2.37	556484	570819	-3
c - 14	3.05	564994	570819	-1
c - 16	3.65	578473	570819	1
c - 18	4.29	576059	570819	1
o-Terphenyl	4.57	653528	570819	
c - 20	4.89	590252	570819	3
c - 22	5.40	606984	570819	6
c - 24	5.84	571691	570819	0
c - 26	6.23	604291	570819	6
c - 28	6.60	591952	570819	4
c - 30	6.93	577792	570819	1
c - 32	7.24	555059	570819	-3
c - 34	7.54	552787	570819	-3
c - 36	7.89	549559	570819	-4

* One compound allowed %D <= 50%

Samples

17H0394-01@25X
17H0394-03@50X

D:\HPCHEM\1\DATA\A081717.SEC\A0817007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/17/17
Data File Name	A0817007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	656420	700060	-6
c - 10	1.63	668303	700060	-5
c - 12	2.35	695645	700060	-1
c - 14	3.01	712597	700060	2
c - 16	3.62	727943	700060	4
c - 18	4.23	718431	700060	3
o-Terphenyl	4.51	798888	700060	
c - 20	4.84	725022	700060	4
c - 22	5.34	733139	700060	5
c - 24	5.78	682958	700060	-2
c - 26	6.17	717420	700060	2
c - 28	6.53	705321	700060	1
c - 30	6.86	698216	700060	0
c - 32	7.17	680459	700060	-3
c - 34	7.46	686681	700060	-2
c - 36	7.78	692339	700060	-1

* One compound allowed %D <= 50%

Samples

17H0394-02@10X

D:\HPCHEM\1\DATA\A081717\A0817024.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/17/17
Data File Name	A0817024.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	478711	508703	-6
c - 10	1.64	484497	508703	-5
c - 12	2.37	499324	508703	-2
c - 14	3.05	509329	508703	0
c - 16	3.66	522672	508703	3
c - 18	4.29	519758	508703	2
o-Terphenyl	4.57	580983	508703	
c - 20	4.89	528784	508703	4
c - 22	5.40	539953	508703	6
c - 24	5.84	503971	508703	-1
c - 26	6.24	528295	508703	4
c - 28	6.60	517203	508703	2
c - 30	6.93	508357	508703	0
c - 32	7.24	494707	508703	-3
c - 34	7.54	496880	508703	-2
c - 36	7.89	498109	508703	-2

* One compound allowed %D <= 50%

Samples

17H0394-05

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: English Station

Project Number: 17H0394

Laboratory Sample ID(s):

17H0394-01 thru 17H0394-06

Sample Date(s):

08/08/2017

List RCP Methods Used:

CTDEP ETPH, 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:** **08/21/17**

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: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0533

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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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: 17H0533

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-5	17H0533-01	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-6	17H0533-02	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-7	17H0533-03	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-8	17H0533-04	Product/Solid		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-CO-2	17H0533-05	Product/Solid		SW-846 8082A	
WS-AOC14-CO-4	17H0533-06	Product/Solid		SW-846 8082A	
WS-AOC14-CO-5	17H0533-07	Product/Solid		SW-846 8082A	
WS-AOC14-CO-6	17H0533-08	Product/Solid		SW-846 8082A	
WS-AOC14-CO-7	17H0533-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-8	17H0533-10	Product/Solid		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:

MS-21

Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B184156-MS1, B184156-MSD1

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.

Daren J. Damboragian
Director of Operations

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5 | Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Acenaphthylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(a)anthracene	1.6	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(a)pyrene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(b)fluoranthene	2.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(g,h,i)perylene	0.86	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Benzo(k)fluoranthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Chrysene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Fluoranthene	3.8	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Fluorene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Indeno(1,2,3-cd)pyrene	0.94	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Naphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Phenanthrene	3.4	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL
Pyrene	3.3	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	87.1	30-130		8/17/17 14:05
2-Fluorobiphenyl	70.1	30-130		8/17/17 14:05
p-Terphenyl-d14	75.8	30-130		8/17/17 14:05

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5 | Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

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	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1248 [2]	0.51	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1254 [2]	0.57	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1260 [1]	0.24	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 15:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/17/17 15:47
Decachlorobiphenyl [2]	105	30-150		8/17/17 15:47
Tetrachloro-m-xylene [1]	85.3	30-150		8/17/17 15:47
Tetrachloro-m-xylene [2]	93.9	30-150		8/17/17 15:47

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Project Location: English Station
Sample Description:
Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-5
Sampled: 8/9/2017 09:30

Sample ID: 17H0533-01

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/16/17 9:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	56.5	50-150		8/16/17 9:20

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6 | Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Acenaphthylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(a)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(a)pyrene	0.85	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(b)fluoranthene	1.2	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(g,h,i)perylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Benzo(k)fluoranthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Chrysene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Dibenz(a,h)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Fluoranthene	1.5	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Fluorene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Indeno(1,2,3-cd)pyrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
2-Methylnaphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Naphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Phenanthrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL
Pyrene	1.8	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:31	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	77.4	30-130		8/17/17 14:31
2-Fluorobiphenyl	65.4	30-130		8/17/17 14:31
p-Terphenyl-d14	64.3	30-130		8/17/17 14:31

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6 | Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

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	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1248 [2]	0.62	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1254 [2]	0.83	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1260 [2]	0.33	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/17/17 16:04
Decachlorobiphenyl [2]	113	30-150		8/17/17 16:04
Tetrachloro-m-xylene [1]	91.4	30-150		8/17/17 16:04
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 16:04

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Project Location: English Station
Sample Description:
Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-6
Sampled: 8/9/2017 09:45

Sample ID: 17H0533-02

Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/15/17 17:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	67.8	50-150		8/15/17 17:36

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-7 | Sampled: 8/9/2017 12:15

Sample ID: 17H0533-03

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Acenaphthylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(a)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(a)pyrene	0.94	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(b)fluoranthene	1.5	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(g,h,i)perylene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Benzo(k)fluoranthene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Chrysene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Dibenz(a,h)anthracene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Fluoranthene	1.4	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Fluorene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
2-Methylnaphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Naphthalene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Phenanthrene	ND	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL
Pyrene	1.7	0.85	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 14:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.2	30-130		8/17/17 14:57
2-Fluorobiphenyl	47.9	30-130		8/17/17 14:57
p-Terphenyl-d14	47.9	30-130		8/17/17 14:57

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-7 | Sampled: 8/9/2017 12:15

Sample ID: 17H0533-03

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	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1248 [2]	0.30	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1254 [2]	0.42	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1260 [2]	0.29	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/17/17 16:22
Decachlorobiphenyl [2]	110	30-150		8/17/17 16:22
Tetrachloro-m-xylene [1]	88.6	30-150		8/17/17 16:22
Tetrachloro-m-xylene [2]	98.3	30-150		8/17/17 16:22

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Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-SE-7
Sampled: 8/9/2017 12:15
Sample ID: 17H0533-03
Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	980	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/15/17 17:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	71.2	50-150		8/15/17 17:54

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Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-8 | Sampled: 8/9/2017 12:30

Sample ID: 17H0533-04

Sample Matrix: Product/Solid

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Acenaphthylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(a)anthracene	0.97	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(a)pyrene	1.2	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(b)fluoranthene	1.9	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(g,h,i)perylene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Benzo(k)fluoranthene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Chrysene	1.1	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Dibenz(a,h)anthracene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Fluoranthene	2.5	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Fluorene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
2-Methylnaphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Naphthalene	ND	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Phenanthrene	1.7	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL
Pyrene	2.6	0.84	mg/Kg	1		SW-846 8270D	8/16/17	8/17/17 15:23	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	77.5	30-130		8/17/17 15:23
2-Fluorobiphenyl	60.7	30-130		8/17/17 15:23
p-Terphenyl-d14	60.5	30-130		8/17/17 15:23

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-SE-8 | Sampled: 8/9/2017 12:30

Sample ID: 17H0533-04

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	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1248 [2]	0.46	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1254 [2]	0.55	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1260 [2]	0.33	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/17/17 16:39
Decachlorobiphenyl [2]	108	30-150		8/17/17 16:39
Tetrachloro-m-xylene [1]	88.7	30-150		8/17/17 16:39
Tetrachloro-m-xylene [2]	97.2	30-150		8/17/17 16:39

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-SE-8
Sampled: 8/9/2017 12:30
Sample ID: 17H0533-04
Sample Matrix: Product/Solid

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	500	250	mg/Kg	5		CTDEP ETPH	8/15/17	8/16/17 9:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.7	50-150		8/16/17 9:20

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-CO-2
Sampled: 8/9/2017 10:00
Sample ID: 17H0533-05
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	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 16:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.4	30-150		8/17/17 16:56
Decachlorobiphenyl [2]	99.3	30-150		8/17/17 16:56
Tetrachloro-m-xylene [1]	87.5	30-150		8/17/17 16:56
Tetrachloro-m-xylene [2]	95.9	30-150		8/17/17 16:56

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-4 | Sampled: 8/9/2017 10:30

Sample ID: 17H0533-06

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	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/17/17 17:14
Decachlorobiphenyl [2]	103	30-150		8/17/17 17:14
Tetrachloro-m-xylene [1]	93.1	30-150		8/17/17 17:14
Tetrachloro-m-xylene [2]	102	30-150		8/17/17 17:14

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-5 | Sampled: 8/9/2017 12:00

Sample ID: 17H0533-07

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	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.0	30-150		8/17/17 17:31
Decachlorobiphenyl [2]	91.5	30-150		8/17/17 17:31
Tetrachloro-m-xylene [1]	84.5	30-150		8/17/17 17:31
Tetrachloro-m-xylene [2]	90.1	30-150		8/17/17 17:31

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-6 | Sampled: 8/9/2017 12:30

Sample ID: 17H0533-08

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	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 17:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	109	30-150		8/17/17 17:48
Decachlorobiphenyl [2]	104	30-150		8/17/17 17:48
Tetrachloro-m-xylene [1]	94.1	30-150		8/17/17 17:48
Tetrachloro-m-xylene [2]	101	30-150		8/17/17 17:48

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

Project Location: English Station
Sample Description:
Work Order: 17H0533
Date Received: 8/9/2017
Field Sample #: WS-AOC14-CO-7
Sampled: 8/9/2017 13:00
Sample ID: 17H0533-09
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	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		8/17/17 18:05
Decachlorobiphenyl [2]	107	30-150		8/17/17 18:05
Tetrachloro-m-xylene [1]	93.3	30-150		8/17/17 18:05
Tetrachloro-m-xylene [2]	99.4	30-150		8/17/17 18:05

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

Project Location: English Station | Sample Description: | Work Order: 17H0533

Date Received: 8/9/2017

Field Sample #: WS-AOC14-CO-8 | Sampled: 8/9/2017 13:30

Sample ID: 17H0533-10

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	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/15/17	8/17/17 18:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/17/17 18:23
Decachlorobiphenyl [2]	98.8	30-150		8/17/17 18:23
Tetrachloro-m-xylene [1]	84.2	30-150		8/17/17 18:23
Tetrachloro-m-xylene [2]	89.7	30-150		8/17/17 18:23

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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
17H0533-01 [WS-AOC14-SE-5]	B184119	6.00	1.00	08/15/17
17H0533-02 [WS-AOC14-SE-6]	B184119	6.00	1.00	08/15/17
17H0533-03 [WS-AOC14-SE-7]	B184119	6.00	1.00	08/15/17
17H0533-04 [WS-AOC14-SE-8]	B184119	6.00	1.00	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0533-01 [WS-AOC14-SE-5]	B184156	2.06	10.0	08/15/17
17H0533-02 [WS-AOC14-SE-6]	B184156	2.00	10.0	08/15/17
17H0533-03 [WS-AOC14-SE-7]	B184156	2.08	10.0	08/15/17
17H0533-04 [WS-AOC14-SE-8]	B184156	2.14	10.0	08/15/17
17H0533-05 [WS-AOC14-CO-2]	B184156	2.01	10.0	08/15/17
17H0533-06 [WS-AOC14-CO-4]	B184156	2.12	10.0	08/15/17
17H0533-07 [WS-AOC14-CO-5]	B184156	2.16	10.0	08/15/17
17H0533-08 [WS-AOC14-CO-6]	B184156	2.00	10.0	08/15/17
17H0533-09 [WS-AOC14-CO-7]	B184156	2.13	10.0	08/15/17
17H0533-10 [WS-AOC14-CO-8]	B184156	2.03	10.0	08/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0533-01 [WS-AOC14-SE-5]	B184250	6.01	1.00	08/16/17
17H0533-02 [WS-AOC14-SE-6]	B184250	6.05	1.00	08/16/17
17H0533-03 [WS-AOC14-SE-7]	B184250	6.02	1.00	08/16/17
17H0533-04 [WS-AOC14-SE-8]	B184250	6.10	1.00	08/16/17

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

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 B184250 - SW-846 3546										
Blank (B184250-BLK1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	ND	0.17	mg/Kg							
Acenaphthylene	ND	0.17	mg/Kg							
Anthracene	ND	0.17	mg/Kg							
Benzo(a)anthracene	ND	0.17	mg/Kg							
Benzo(a)pyrene	ND	0.17	mg/Kg							
Benzo(b)fluoranthene	ND	0.17	mg/Kg							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg							
Benzo(k)fluoranthene	ND	0.17	mg/Kg							
Chrysene	ND	0.17	mg/Kg							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg							
Fluoranthene	ND	0.17	mg/Kg							
Fluorene	ND	0.17	mg/Kg							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg							
2-Methylnaphthalene	ND	0.17	mg/Kg							
Naphthalene	ND	0.17	mg/Kg							
Phenanthrene	ND	0.17	mg/Kg							
Pyrene	ND	0.17	mg/Kg							
Surrogate: Nitrobenzene-d5	*2.13*		mg/Kg	3.33		63.8	30-130			
Surrogate: 2-Fluorobiphenyl	*2.44*		mg/Kg	3.33		73.2	30-130			
Surrogate: p-Terphenyl-d14	*2.77*		mg/Kg	3.33		83.2	30-130			
LCS (B184250-BS1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	1.09	0.17	mg/Kg	1.67		65.6	40-140			
Acenaphthylene	0.995	0.17	mg/Kg	1.67		59.7	40-140			
Anthracene	1.03	0.17	mg/Kg	1.67		62.1	40-140			
Benzo(a)anthracene	1.01	0.17	mg/Kg	1.67		60.8	40-140			
Benzo(a)pyrene	1.10	0.17	mg/Kg	1.67		66.1	40-140			
Benzo(b)fluoranthene	0.999	0.17	mg/Kg	1.67		59.9	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg	1.67		64.5	40-140			
Benzo(k)fluoranthene	1.10	0.17	mg/Kg	1.67		66.3	40-140			
Chrysene	0.958	0.17	mg/Kg	1.67		57.5	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg	1.67		64.3	40-140			
Fluoranthene	1.02	0.17	mg/Kg	1.67		61.4	40-140			
Fluorene	1.02	0.17	mg/Kg	1.67		61.1	40-140			
Indeno(1,2,3-cd)pyrene	1.08	0.17	mg/Kg	1.67		64.9	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg	1.67		65.7	40-140			
Naphthalene	1.00	0.17	mg/Kg	1.67		60.0	40-140			
Phenanthrene	1.06	0.17	mg/Kg	1.67		63.9	40-140			
Pyrene	1.12	0.17	mg/Kg	1.67		67.5	40-140			
Surrogate: Nitrobenzene-d5	*2.50*		mg/Kg	3.33		75.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.31*		mg/Kg	3.33		69.3	30-130			
Surrogate: p-Terphenyl-d14	*2.30*		mg/Kg	3.33		68.9	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 B184250 - SW-846 3546										
LCS Dup (B184250-BSD1)				Prepared: 08/16/17 Analyzed: 08/17/17						
Acenaphthene	1.22	0.17	mg/Kg	1.67		73.2	40-140	11.0	30	
Acenaphthylene	1.18	0.17	mg/Kg	1.67		70.8	40-140	17.0	30	
Anthracene	1.26	0.17	mg/Kg	1.67		75.8	40-140	19.8	30	
Benzo(a)anthracene	1.12	0.17	mg/Kg	1.67		67.5	40-140	10.3	30	
Benzo(a)pyrene	1.34	0.17	mg/Kg	1.67		80.1	40-140	19.2	30	
Benzo(b)fluoranthene	1.29	0.17	mg/Kg	1.67		77.4	40-140	25.4	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg	1.67		62.6	40-140	2.96	30	
Benzo(k)fluoranthene	1.32	0.17	mg/Kg	1.67		79.5	40-140	18.2	30	
Chrysene	1.05	0.17	mg/Kg	1.67		62.8	40-140	8.94	30	
Dibenz(a,h)anthracene	1.08	0.17	mg/Kg	1.67		64.9	40-140	0.836	30	
Fluoranthene	1.35	0.17	mg/Kg	1.67		80.9	40-140	27.3	30	
Fluorene	1.27	0.17	mg/Kg	1.67		76.0	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.11	0.17	mg/Kg	1.67		66.5	40-140	2.37	30	
2-Methylnaphthalene	1.29	0.17	mg/Kg	1.67		77.2	40-140	16.1	30	
Naphthalene	1.15	0.17	mg/Kg	1.67		69.1	40-140	14.0	30	
Phenanthrene	1.27	0.17	mg/Kg	1.67		76.3	40-140	17.7	30	
Pyrene	1.21	0.17	mg/Kg	1.67		72.6	40-140	7.34	30	
Surrogate: Nitrobenzene-d5	*2.87*		mg/Kg	3.33		86.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.64*		mg/Kg	3.33		79.1	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg	3.33		78.1	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 B184156 - SW-846 3540C										
Blank (B184156-BLK1)				Prepared: 08/15/17 Analyzed: 08/17/17						
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	*0.993*		mg/Kg	1.00		99.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.935*		mg/Kg	1.00		93.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.814*		mg/Kg	1.00		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.900*		mg/Kg	1.00		90.0	30-150			
LCS (B184156-BS1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.81	0.10	mg/Kg	1.00		81.2	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		90.9	40-140			
Aroclor-1260	0.82	0.10	mg/Kg	1.00		82.3	40-140			
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.883*		mg/Kg	1.00		88.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.759*		mg/Kg	1.00		75.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
LCS Dup (B184156-BSD1)				Prepared: 08/15/17 Analyzed: 08/17/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		87.8	40-140	7.77	30	
Aroclor-1016 [2C]	0.99	0.10	mg/Kg	1.00		99.1	40-140	8.57	30	
Aroclor-1260	0.92	0.10	mg/Kg	1.00		92.1	40-140	11.1	30	
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	10.7	30	
Surrogate: Decachlorobiphenyl	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.893*		mg/Kg	1.00		89.3	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 B184156 - SW-846 3540C											
Matrix Spike (B184156-MS1)		**Source: 17H0533-01**		Prepared: 08/15/17 Analyzed: 08/17/17							
Aroclor-1016	1.3	0.098	mg/Kg	0.980	ND	132		40-140			
Aroclor-1016 [2C]	1.4	0.098	mg/Kg	0.980	ND	**145**	*	40-140			MS-21
Aroclor-1260	1.1	0.098	mg/Kg	0.980	0.24	84.9		40-140			
Aroclor-1260 [2C]	1.1	0.098	mg/Kg	0.980	0.23	91.0		40-140			
Surrogate: Decachlorobiphenyl	*1.03*		mg/Kg	0.980		105		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.16*		mg/Kg	0.980		118		30-150			
Surrogate: Tetrachloro-m-xylene	*0.818*		mg/Kg	0.980		83.5		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.903*		mg/Kg	0.980		92.1		30-150			
Matrix Spike Dup (B184156-MSD1)		**Source: 17H0533-01**		Prepared: 08/15/17 Analyzed: 08/17/17							
Aroclor-1016	1.3	0.10	mg/Kg	1.00	ND	126		40-140	2.84	50	
Aroclor-1016 [2C]	1.4	0.10	mg/Kg	1.00	ND	**141**	*	40-140	1.30	50	MS-21
Aroclor-1260	0.97	0.10	mg/Kg	1.00	0.24	73.5		40-140	9.57	50	
Aroclor-1260 [2C]	1.1	0.10	mg/Kg	1.00	0.23	86.4		40-140	2.57	50	
Surrogate: Decachlorobiphenyl	*0.977*		mg/Kg	1.00		97.7		30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.05*		mg/Kg	1.00		105		30-150			
Surrogate: Tetrachloro-m-xylene	*0.873*		mg/Kg	1.00		87.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.958*		mg/Kg	1.00		95.8		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 B184119 - SW-846 3546										
Blank (B184119-BLK1)				Prepared & Analyzed: 08/15/17						
CT ETPH	ND	50	mg/Kg							
Surrogate: o-Terphenyl	*12.0*		mg/Kg	16.7		72.2	50-150			
LCS (B184119-BS1)				Prepared & Analyzed: 08/15/17						
CT ETPH	108	50	mg/Kg	167		64.5	60-120			
Surrogate: o-Terphenyl	*12.8*		mg/Kg	16.7		77.0	50-150			
LCS Dup (B184119-BSD1)				Prepared & Analyzed: 08/15/17						
CT ETPH	110	50	mg/Kg	167		66.0	60-120	2.25	30	
Surrogate: o-Terphenyl	*13.3*		mg/Kg	16.7		79.9	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-5

Lab Sample ID: 17H0533-01

Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.51	12.5
Aroclor-1254	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.57	25.7
Aroclor-1260	1	0.000	0.000	0.000	0.24	
	2	0.000	0.000	0.000	0.23	4.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-6

Lab Sample ID: 17H0533-02 Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.57	
	2	0.000	0.000	0.000	0.62	8.4
Aroclor-1254	1	0.000	0.000	0.000	0.54	
	2	0.000	0.000	0.000	0.83	42.3
Aroclor-1260	1	0.000	0.000	0.000	0.30	
	2	0.000	0.000	0.000	0.33	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-7

Lab Sample ID: 17H0533-03

Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.30	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.35	
	2	0.000	0.000	0.000	0.42	18.2
Aroclor-1260	1	0.000	0.000	0.000	0.26	
	2	0.000	0.000	0.000	0.29	10.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-8

Lab Sample ID: 17H0533-04 Date(s) Analyzed: 08/17/2017 08/17/2017

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-1248	1	0.000	0.000	0.000	0.43	
	2	0.000	0.000	0.000	0.46	6.7
Aroclor-1254	1	0.000	0.000	0.000	0.44	
	2	0.000	0.000	0.000	0.55	22.2
Aroclor-1260	1	0.000	0.000	0.000	0.27	
	2	0.000	0.000	0.000	0.33	20.0

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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.
MS-21	Matrix spike and/or spike duplicate recovery bias high due to contribution of other Aroclors present in the source sample.

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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
SW-846 8270D in Product/Solid	
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

17H0533

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Doc # 381 Rev 1_03242017

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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

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: ✓PDF ☐ ✓ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsc.inc.com
Fax To #:

Company Name: Weston + Sampson
Address: 273 Dividend Road Rocky Hill, CT
Phone: 860-513-1473
Project Name: English Station
Project Location: New Haven
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Will Siretnak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB via Soxhlet	EDPH	PAHs									# of Containers
1	WS-AOC14-SE-5	8/9/17	930		X	S	U	X	X	X									
2	WS-AOC14-SE-6		945		X	S		X	X	X									
3	WS-AOC14-SE-7		1215		X	S		X	X	X									
4	WS-AOC14-SE-8		1230			S		X	X	X									
5	WS-AOC14-Co-2		1000			O		X											
6	WS-AOC14-Co-4		1030					X											
7	WS-AOC14-Co-5		1200					X											
8	WS-AOC14-Co-6		1230					X											
9	WS-AOC14-Co-7		1300					X											
10	WS-AOC14-Co-8	✓	1330		✓	✓	✓	X											

ANALYSIS REQUESTED

[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments: Run SE-5 THRU SE-8 as solid

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
SL = Sludge
SOL = Solid
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) Concrete

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

	Date/Time:
Relinquished by: (signature) 8/9/17	
Received by: (signature) Tom Mai 8/9/17	1500
Relinquished by: (signature) Tom Mai 8/9/17	1745
Received by: (signature) 4.5 8/9/17	1745
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
GW RES DEC
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☑ Soxhlet
☐ Non Soxhlet

Table of Contents

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East Longmeadow, MA. 01028
P: 413-525-2332
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 JM Date 8/9/17 Time 1745

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 - 4.5
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	4
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	6
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\A081517.SEC\A0815043.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/15/17
Data File Name	A0815043.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	608894	660897	-8
c - 10	1.63	636609	660897	-4
c - 12	2.35	664043	660897	0
c - 14	3.02	673916	660897	2
c - 16	3.62	685343	660897	4
c - 18	4.23	676312	660897	2
o-Terphenyl	4.52	752988	660897	
c - 20	4.84	684326	660897	4
c - 22	5.34	693182	660897	5
c - 24	5.78	644298	660897	-3
c - 26	6.17	675276	660897	2
c - 28	6.53	664675	660897	1
c - 30	6.86	659186	660897	0
c - 32	7.17	645569	660897	-2
c - 34	7.46	649625	660897	-2
c - 36	7.78	652196	660897	-1

* One compound allowed %D <= 50%

Samples

17H0533-02@5X
17H0533-03@5X

D:\HPCHEM\1\DATA\A081617\A0816006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/16/17
Data File Name	A0816006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	531325	568682	-7
c - 10	1.64	539659	568682	-5
c - 12	2.37	555392	568682	-2
c - 14	3.04	567428	568682	0
c - 16	3.65	584498	568682	3
c - 18	4.29	582918	568682	3
o-Terphenyl	4.57	655062	568682	
c - 20	4.89	593976	568682	4
c - 22	5.40	607532	568682	7
c - 24	5.84	567752	568682	0
c - 26	6.24	593752	568682	4
c - 28	6.60	579655	568682	2
c - 30	6.93	568902	568682	0
c - 32	7.25	552087	568682	-3
c - 34	7.54	552954	568682	-3
c - 36	7.89	552403	568682	-3

* One compound allowed %D <= 50%

Samples

17R0533-01@5X

D:\HPCHEM\1\DATA\A081617.SEC\A0816007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/16/17
Data File Name	A0816007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557509	596330	-7
c - 10	1.63	571411	596330	-4
c - 12	2.34	596431	596330	0
c - 14	3.01	609294	596330	2
c - 16	3.61	623386	596330	5
c - 18	4.23	615556	596330	3
o-Terphenyl	4.51	681312	596330	
c - 20	4.84	619067	596330	4
c - 22	5.34	625989	596330	5
c - 24	5.78	581229	596330	-3
c - 26	6.17	609292	596330	2
c - 28	6.53	598795	596330	0
c - 30	6.86	593331	596330	-1
c - 32	7.17	579061	596330	-3
c - 34	7.46	582075	596330	-2
c - 36	7.78	582525	596330	-2

* One compound allowed %D <= 50%

Samples

17H0533-04@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: English Station

Project Number: 17H0533

Laboratory Sample ID(s):

17H0533-01 thru 17H0533-10

Sample Date(s):

08/09/2017

List RCP Methods Used:

CTDEP ETPH, 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: **Position:** **Director of Operations**

Printed Name: **Daren J. Damboragian** **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 22, 2017

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

Project Location: English Station
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0617

Enclosed are results of analyses for samples received by the laboratory on August 10, 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: 8/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0617

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

PROJECT LOCATION: English Station

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC14-SE-12	17H0617-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-13	17H0617-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-14	17H0617-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-15	17H0617-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-16	17H0617-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-17	17H0617-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-18	17H0617-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-Co-13	17H0617-08	Concrete		SW-846 8082A	
WS-AOC14-Co-15	17H0617-09	Concrete		SW-846 8082A	
WS-AOC14-Co-18	17H0617-10	Concrete		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: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-12 | Sampled: 8/10/2017 10:30

Sample ID: 17H0617-01

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	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1248 [1]	0.94	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1254 [2]	1.2	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1260 [1]	0.58	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.9	30-150		8/21/17 18:47
Decachlorobiphenyl [2]	75.9	30-150		8/21/17 18:47
Tetrachloro-m-xylene [1]	82.8	30-150		8/21/17 18:47
Tetrachloro-m-xylene [2]	78.6	30-150		8/21/17 18:47

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-12
Sampled: 8/10/2017 10:30

Sample ID: 17H0617-01

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	42.0		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-13 | Sampled: 8/10/2017 11:08

Sample ID: 17H0617-02

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	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1248 [1]	0.86	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1254 [2]	1.2	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1260 [1]	0.47	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		8/21/17 19:05
Decachlorobiphenyl [2]	68.0	30-150		8/21/17 19:05
Tetrachloro-m-xylene [1]	76.3	30-150		8/21/17 19:05
Tetrachloro-m-xylene [2]	72.7	30-150		8/21/17 19:05

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-13
Sampled: 8/10/2017 11:08

Sample ID: 17H0617-02

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	48.2		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-14 | Sampled: 8/10/2017 11:30

Sample ID: 17H0617-03

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	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1221 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1232 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1242 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1248 [1]	0.90	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1254 [2]	1.2	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1260 [2]	0.38	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1262 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL
Aroclor-1268 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.8	30-150		8/21/17 19:24
Decachlorobiphenyl [2]	63.2	30-150		8/21/17 19:24
Tetrachloro-m-xylene [1]	72.4	30-150		8/21/17 19:24
Tetrachloro-m-xylene [2]	69.7	30-150		8/21/17 19:24

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-14
Sampled: 8/10/2017 11:30

Sample ID: 17H0617-03

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	38.1		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-15 | Sampled: 8/10/2017 13:00

Sample ID: 17H0617-04

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	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1221 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1232 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1242 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1248 [1]	0.67	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1254 [2]	0.78	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1260 [1]	0.39	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1262 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL
Aroclor-1268 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.0	30-150		8/21/17 20:32
Decachlorobiphenyl [2]	67.9	30-150		8/21/17 20:32
Tetrachloro-m-xylene [1]	78.8	30-150		8/21/17 20:32
Tetrachloro-m-xylene [2]	71.2	30-150		8/21/17 20:32

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-15
Sampled: 8/10/2017 13:00

Sample ID: 17H0617-04

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	32.4		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-16 | Sampled: 8/10/2017 13:15

Sample ID: 17H0617-05

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	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1248 [1]	0.68	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1254 [2]	0.85	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1260 [1]	0.35	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 20:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.3	30-150		8/21/17 20:50
Decachlorobiphenyl [2]	72.5	30-150		8/21/17 20:50
Tetrachloro-m-xylene [1]	76.6	30-150		8/21/17 20:50
Tetrachloro-m-xylene [2]	68.2	30-150		8/21/17 20:50

con-test® ANALYTICAL LABORATORY

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-16
Sampled: 8/10/2017 13:15

Sample ID: 17H0617-05

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	30.2		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-17 | Sampled: 8/10/2017 13:30

Sample ID: 17H0617-06

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	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1248 [1]	0.34	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1254 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1260 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.4	30-150		8/21/17 21:08
Decachlorobiphenyl [2]	58.5	30-150		8/21/17 21:08
Tetrachloro-m-xylene [1]	65.3	30-150		8/21/17 21:08
Tetrachloro-m-xylene [2]	55.4	30-150		8/21/17 21:08

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-17
Sampled: 8/10/2017 13:30

Sample ID: 17H0617-06

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	30.5		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-18 | Sampled: 8/10/2017 13:45

Sample ID: 17H0617-07

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	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1221 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1232 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1242 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1248 [1]	0.54	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1254 [1]	0.47	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1260 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1262 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL
Aroclor-1268 [1]	ND	0.35	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 21:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		8/21/17 21:27
Decachlorobiphenyl [2]	59.9	30-150		8/21/17 21:27
Tetrachloro-m-xylene [1]	69.0	30-150		8/21/17 21:27
Tetrachloro-m-xylene [2]	55.0	30-150		8/21/17 21:27

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

Project Location: English Station
Sample Description:
Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-SE-18
Sampled: 8/10/2017 13:45

Sample ID: 17H0617-07

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	28.3		% Wt	1		SM 2540G	8/11/17	8/14/17 8:50	MRL

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-13 | Sampled: 8/10/2017 12:30

Sample ID: 17H0617-08

Sample Matrix: Concrete

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	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.5	30-150		8/19/17 10:23
Decachlorobiphenyl [2]	75.9	30-150		8/19/17 10:23
Tetrachloro-m-xylene [1]	73.9	30-150		8/19/17 10:23
Tetrachloro-m-xylene [2]	79.1	30-150		8/19/17 10:23

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-15 | Sampled: 8/10/2017 14:30

Sample ID: 17H0617-09

Sample Matrix: Concrete

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	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		8/19/17 10:41
Decachlorobiphenyl [2]	78.5	30-150		8/19/17 10:41
Tetrachloro-m-xylene [1]	80.9	30-150		8/19/17 10:41
Tetrachloro-m-xylene [2]	87.4	30-150		8/19/17 10:41

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

Project Location: English Station | Sample Description: | Work Order: 17H0617

Date Received: 8/10/2017

Field Sample #: WS-AOC14-Co-18 | Sampled: 8/10/2017 14:50

Sample ID: 17H0617-10

Sample Matrix: Concrete

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	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 10:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		8/19/17 10:58
Decachlorobiphenyl [2]	89.5	30-150		8/19/17 10:58
Tetrachloro-m-xylene [1]	80.8	30-150		8/19/17 10:58
Tetrachloro-m-xylene [2]	84.6	30-150		8/19/17 10:58

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0617-01 [WS-AOC14-SE-12]	B183882	08/11/17
17H0617-02 [WS-AOC14-SE-13]	B183882	08/11/17
17H0617-03 [WS-AOC14-SE-14]	B183882	08/11/17
17H0617-04 [WS-AOC14-SE-15]	B183882	08/11/17
17H0617-05 [WS-AOC14-SE-16]	B183882	08/11/17
17H0617-06 [WS-AOC14-SE-17]	B183882	08/11/17
17H0617-07 [WS-AOC14-SE-18]	B183882	08/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0617-08 [WS-AOC14-Co-13]	B184283	2.00	10.0	08/16/17
17H0617-09 [WS-AOC14-Co-15]	B184283	2.00	10.0	08/16/17
17H0617-10 [WS-AOC14-Co-18]	B184283	2.00	10.0	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0617-01 [WS-AOC14-SE-12]	B184282	10.0	10.0	08/16/17
17H0617-02 [WS-AOC14-SE-13]	B184282	10.0	10.0	08/16/17
17H0617-03 [WS-AOC14-SE-14]	B184282	10.0	10.0	08/16/17
17H0617-04 [WS-AOC14-SE-15]	B184282	10.0	10.0	08/16/17
17H0617-05 [WS-AOC14-SE-16]	B184282	10.0	10.0	08/16/17
17H0617-06 [WS-AOC14-SE-17]	B184282	10.0	10.0	08/16/17
17H0617-07 [WS-AOC14-SE-18]	B184282	10.0	10.0	08/16/17

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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 B184282 - SW-846 3540C										
Blank (B184282-BLK1)				Prepared: 08/16/17 Analyzed: 08/21/17						
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	*0.177*		mg/Kg wet	0.200		88.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		75.0	30-150			
LCS (B184282-BS1)				Prepared: 08/16/17 Analyzed: 08/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.0	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.7	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.4	40-140			
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		84.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.200		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.200		78.0	30-150			
LCS Dup (B184282-BSD1)				Prepared: 08/16/17 Analyzed: 08/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5	40-140	4.29	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.1	40-140	2.82	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	5.67	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	5.26	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	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 B184283 - SW-846 3540C										
Blank (B184283-BLK1)				Prepared: 08/16/17 Analyzed: 08/19/17						
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	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.914*		mg/Kg	1.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS (B184283-BS1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		93.9	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		79.6	40-140			
Surrogate: Decachlorobiphenyl	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
LCS Dup (B184283-BSD1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.6	40-140	2.54	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.3	40-140	0.0915	30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		80.0	40-140	0.963	30	
Aroclor-1260 [2C]	0.77	0.10	mg/Kg	1.00		77.0	40-140	3.33	30	
Surrogate: Decachlorobiphenyl	*0.879*		mg/Kg	1.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.905*		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.948*		mg/Kg	1.00		94.8	30-150			

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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-AOC14-SE-12

Lab Sample ID: 17H0617-01

Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.94	
	2	0.000	-0.030	0.030	0.84	11.2
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.58	
	2	0.000	-0.030	0.030	0.56	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-13

Lab Sample ID: 17H0617-02 Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.76	12.3
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.46	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-14

Lab Sample ID: 17H0617-03 Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.90	
	2	0.000	-0.030	0.030	0.84	6.9
Aroclor-1254	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	1.2	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.38	8.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-15

Lab Sample ID: 17H0617-04 Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.64	4.6
Aroclor-1254	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.78	15.2
Aroclor-1260	1	0.000	-0.030	0.030	0.39	
	2	0.000	-0.030	0.030	0.37	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-16

Lab Sample ID: 17H0617-05

Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.68	
	2	0.000	-0.030	0.030	0.64	6.1
Aroclor-1254	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.85	15.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-18

Lab Sample ID: 17H0617-07

Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.54	
	2	0.000	-0.030	0.030	0.39	32.3
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.45	4.4

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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.

con-test® ANALYTICAL LABORATORY

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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
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

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

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

17H0617

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 1

Company Name:	Weston + Sampson
Address:	273 Dividend Road - Rocky Hill
Phone:	860-513-1473
Project Name:	English Station
Project Location:	New Haven
Project Number:	
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler
Sampled By:	Will Siretwak

Requested Turnaround Time
7-Day ☐ ✓ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☐ ✓ EXCEL ☐ ✓
Other:
CLP Like Data Pkg Required: ☐
Email To: beelermewseinc.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	OCBs via Soxhlet
1	WS-AOC14-SE-12	8/10/17	1030		X	S	U	X
2	WS-AOC14-SE-13		1100					X
3	WS-AOC14-SE-14		1130					X
4	WS-AOC14-SE-15		1300					X
5	WS-AOC14-SE-16		1315					X
6	WS-AOC14-SE-17		1330					X
7	WS-AOC14-SE-18		1345					X
8	WS-AOC14-CO-13		1230			O		X
9	WS-AOC14-CO-15		1430			O		X
10	WS-AOC14-CO-18		1450			O		X

Comments:

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] # 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
SL = Sludge
SOL = Solid
O = Other (please define) Concrete

[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)	8/10/17	Date/Time:
Received by: (signature)	8-10-17	Date/Time: 3:30
Relinquished by: (signature)	8-10-17	Date/Time: 5:40
Received by: (signature) Antonio Fetuno	8/10/17	Date/Time: 1740
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
RES DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
✓ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
✓ Soxhlet
☐ Non Soxhlet

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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 A.F. Date 8/10/17 Time 1740

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 - 5.6
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? N/A
Are there Rushes? N/A Who was notified? N/A
Are there Short Holds? N/A Who was notified? N/A
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	7
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	3
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: English Station

Project Number: 17H0617

Laboratory Sample ID(s):

17H0617-01 thru 17H0617-10

Sample Date(s):

08/10/2017

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:** **08/22/17**

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 24, 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: 17H0711

Enclosed are results of analyses for samples received by the laboratory on August 11, 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: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0711

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-AOC14-SE-19	17H0711-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-20	17H0711-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-21	17H0711-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-22	17H0711-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-23	17H0711-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-24	17H0711-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-25	17H0711-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-26	17H0711-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-27	17H0711-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-28	17H0711-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-Co-26	17H0711-11	Product/Solid		SW-846 8082A	
WS-AOC14-SE-Dup-1	17H0711-12	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank-38	17H0711-13	Equipment Blank Water		SW-846 8082A	
Equipment Blank-39	17H0711-14	Equipment Blank Water		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.

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 [2C]

17H0711-04[WS-AOC14-SE-22], 17H0711-05[WS-AOC14-SE-23], 17H0711-12[WS-AOC14-SE-Dup-1]

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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-19 Sampled: 8/11/2017 09:00

Sample ID: 17H0711-01

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	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1248 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1254 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1260 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	42.5	30-150		8/24/17 4:36
Decachlorobiphenyl [2]	38.0	30-150		8/24/17 4:36
Tetrachloro-m-xylene [1]	30.7	30-150		8/24/17 4:36
Tetrachloro-m-xylene [2]	31.2	30-150		8/24/17 4:36

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-19 Sampled: 8/11/2017 09:00

Sample ID: 17H0711-01

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	50.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-20 Sampled: 8/11/2017 09:15

Sample ID: 17H0711-02

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	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1221 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1232 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1242 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1248 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1254 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1260 [2]	0.31	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1262 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL
Aroclor-1268 [1]	ND	0.23	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 4:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/24/17 4:54
Decachlorobiphenyl [2]	69.4	30-150		8/24/17 4:54
Tetrachloro-m-xylene [1]	60.5	30-150		8/24/17 4:54
Tetrachloro-m-xylene [2]	59.3	30-150		8/24/17 4:54

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-20 Sampled: 8/11/2017 09:15

Sample ID: 17H0711-02

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	42.8		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-21 Sampled: 8/11/2017 09:30

Sample ID: 17H0711-03

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	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1221 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1232 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1242 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1248 [2]	0.29	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1254 [2]	0.33	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1260 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1262 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL
Aroclor-1268 [1]	ND	0.24	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.3	30-150		8/24/17 5:13
Decachlorobiphenyl [2]	89.0	30-150		8/24/17 5:13
Tetrachloro-m-xylene [1]	76.1	30-150		8/24/17 5:13
Tetrachloro-m-xylene [2]	74.7	30-150		8/24/17 5:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-21 Sampled: 8/11/2017 09:30

Sample ID: 17H0711-03

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	42.3		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-22 Sampled: 8/11/2017 09:45

Sample ID: 17H0711-04

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	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1254 [2]	0.37	0.25	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.9	30-150		8/24/17 5:31
Decachlorobiphenyl [2]	69.7	30-150		8/24/17 5:31
Tetrachloro-m-xylene [1]	61.6	30-150		8/24/17 5:31
Tetrachloro-m-xylene [2]	61.2	30-150		8/24/17 5:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-22 Sampled: 8/11/2017 09:45

Sample ID: 17H0711-04

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	40.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-23 Sampled: 8/11/2017 11:00

Sample ID: 17H0711-05

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	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1221 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1232 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1242 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1248 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1254 [2]	0.38	0.26	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1260 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1262 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL
Aroclor-1268 [1]	ND	0.26	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 5:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.0	30-150		8/24/17 5:49
Decachlorobiphenyl [2]	84.4	30-150		8/24/17 5:49
Tetrachloro-m-xylene [1]	76.1	30-150		8/24/17 5:49
Tetrachloro-m-xylene [2]	76.1	30-150		8/24/17 5:49

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-23 Sampled: 8/11/2017 11:00

Sample ID: 17H0711-05

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	38.0		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-24 Sampled: 8/11/2017 11:30

Sample ID: 17H0711-06

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	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1254 [2]	0.23	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1260 [1]	0.20	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	102	30-150		8/24/17 6:08
Decachlorobiphenyl [2]	87.4	30-150		8/24/17 6:08
Tetrachloro-m-xylene [1]	83.0	30-150		8/24/17 6:08
Tetrachloro-m-xylene [2]	82.0	30-150		8/24/17 6:08

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-24 Sampled: 8/11/2017 11:30

Sample ID: 17H0711-06

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	51.6		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-25 Sampled: 8/11/2017 12:00

Sample ID: 17H0711-07

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	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1260 [1]	0.34	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/24/17 6:26
Decachlorobiphenyl [2]	93.1	30-150		8/24/17 6:26
Tetrachloro-m-xylene [1]	96.4	30-150		8/24/17 6:26
Tetrachloro-m-xylene [2]	89.8	30-150		8/24/17 6:26

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-25 Sampled: 8/11/2017 12:00

Sample ID: 17H0711-07

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	44.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-26 Sampled: 8/11/2017 12:30

Sample ID: 17H0711-08

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	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1221 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1232 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1242 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1248 [2]	0.85	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1254 [2]	1.0	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1260 [2]	0.51	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1262 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL
Aroclor-1268 [1]	ND	0.36	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 6:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.4	30-150		8/24/17 6:44
Decachlorobiphenyl [2]	79.6	30-150		8/24/17 6:44
Tetrachloro-m-xylene [1]	82.8	30-150		8/24/17 6:44
Tetrachloro-m-xylene [2]	80.0	30-150		8/24/17 6:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-26 Sampled: 8/11/2017 12:30

Sample ID: 17H0711-08

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	27.9		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-27 Sampled: 8/11/2017 12:45

Sample ID: 17H0711-09

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	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1248 [1]	1.3	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1254 [2]	1.3	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1260 [2]	0.53	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		8/24/17 7:03
Decachlorobiphenyl [2]	85.1	30-150		8/24/17 7:03
Tetrachloro-m-xylene [1]	88.2	30-150		8/24/17 7:03
Tetrachloro-m-xylene [2]	84.8	30-150		8/24/17 7:03

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-27 Sampled: 8/11/2017 12:45

Sample ID: 17H0711-09

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	34.8		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-28 Sampled: 8/11/2017 13:00

Sample ID: 17H0711-10

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	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1221 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1232 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1242 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1248 [1]	0.94	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1254 [2]	1.1	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1260 [2]	0.58	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1262 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL
Aroclor-1268 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		8/24/17 7:21
Decachlorobiphenyl [2]	77.1	30-150		8/24/17 7:21
Tetrachloro-m-xylene [1]	80.5	30-150		8/24/17 7:21
Tetrachloro-m-xylene [2]	78.1	30-150		8/24/17 7:21

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-28 Sampled: 8/11/2017 13:00

Sample ID: 17H0711-10

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	31.4		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-Co-26 Sampled: 8/11/2017 14:00

Sample ID: 17H0711-11

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	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/16/17	8/19/17 14:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		8/19/17 14:14
Decachlorobiphenyl [2]	83.3	30-150		8/19/17 14:14
Tetrachloro-m-xylene [1]	79.8	30-150		8/19/17 14:14
Tetrachloro-m-xylene [2]	94.4	30-150		8/19/17 14:14

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-Dup-1 Sampled: 8/11/2017 00:00

Sample ID: 17H0711-12

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	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1254 [2]	0.61	0.25	mg/Kg dry	5	P-01	SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1260 [1]	0.32	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	8/19/17	8/24/17 7:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		8/24/17 7:39
Decachlorobiphenyl [2]	93.7	30-150		8/24/17 7:39
Tetrachloro-m-xylene [1]	82.2	30-150		8/24/17 7:39
Tetrachloro-m-xylene [2]	80.4	30-150		8/24/17 7:39

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: WS-AOC14-SE-Dup-1 Sampled: 8/11/2017 00:00

Sample ID: 17H0711-12

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	39.7		% Wt	1		SM 2540G	8/16/17	8/17/17 5:58	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: 17H0711

Date Received: 8/11/2017

Field Sample #: Equipment Blank-38 Sampled: 8/11/2017 14:15

Sample ID: 17H0711-13

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	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	45.5	30-150		8/19/17 16:17
Decachlorobiphenyl [2]	49.3	30-150		8/19/17 16:17
Tetrachloro-m-xylene [1]	86.2	30-150		8/19/17 16:17
Tetrachloro-m-xylene [2]	97.1	30-150		8/19/17 16:17

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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: 17H0711

Date Received: 8/11/2017

Field Sample #: Equipment Blank-39 Sampled: 8/11/2017 14:20

Sample ID: 17H0711-14

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	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/17/17	8/19/17 16:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.6	30-150		8/19/17 16:29
Decachlorobiphenyl [2]	71.4	30-150		8/19/17 16:29
Tetrachloro-m-xylene [1]	87.7	30-150		8/19/17 16:29
Tetrachloro-m-xylene [2]	97.2	30-150		8/19/17 16:29

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0711-01 [WS-AOC14-SE-19]	B184244	08/16/17
17H0711-02 [WS-AOC14-SE-20]	B184244	08/16/17
17H0711-03 [WS-AOC14-SE-21]	B184244	08/16/17
17H0711-04 [WS-AOC14-SE-22]	B184244	08/16/17
17H0711-05 [WS-AOC14-SE-23]	B184244	08/16/17
17H0711-06 [WS-AOC14-SE-24]	B184244	08/16/17
17H0711-07 [WS-AOC14-SE-25]	B184244	08/16/17
17H0711-08 [WS-AOC14-SE-26]	B184244	08/16/17
17H0711-09 [WS-AOC14-SE-27]	B184244	08/16/17
17H0711-10 [WS-AOC14-SE-28]	B184244	08/16/17
17H0711-12 [WS-AOC14-SE-Dup-1]	B184244	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0711-11 [WS-AOC14-Co-26]	B184283	2.00	10.0	08/16/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0711-01 [WS-AOC14-SE-19]	B184498	10.0	10.0	08/19/17
17H0711-02 [WS-AOC14-SE-20]	B184498	10.0	10.0	08/19/17
17H0711-03 [WS-AOC14-SE-21]	B184498	10.0	10.0	08/19/17
17H0711-04 [WS-AOC14-SE-22]	B184498	10.0	10.0	08/19/17
17H0711-05 [WS-AOC14-SE-23]	B184498	10.0	10.0	08/19/17
17H0711-06 [WS-AOC14-SE-24]	B184498	10.0	10.0	08/19/17
17H0711-07 [WS-AOC14-SE-25]	B184498	10.0	10.0	08/19/17
17H0711-08 [WS-AOC14-SE-26]	B184498	10.0	10.0	08/19/17
17H0711-09 [WS-AOC14-SE-27]	B184498	10.0	10.0	08/19/17
17H0711-10 [WS-AOC14-SE-28]	B184498	10.0	10.0	08/19/17
17H0711-12 [WS-AOC14-SE-Dup-1]	B184498	10.0	10.0	08/19/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0711-13 [Equipment Blank-38]	B184311	1000	10.0	08/17/17
17H0711-14 [Equipment Blank-39]	B184311	1000	10.0	08/17/17

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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 B184311 - SW-846 3510C										
Blank (B184311-BLK1)				Prepared: 08/17/17 Analyzed: 08/19/17						
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	*1.92*		µg/L	2.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.15*		µg/L	2.00		108	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.11*		µg/L	2.00		106	30-150			
LCS (B184311-BS1)				Prepared: 08/17/17 Analyzed: 08/19/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		105	40-140			
Aroclor-1016 [2C]	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1260	0.45	0.20	µg/L	0.500		90.4	40-140			
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.0	40-140			
Surrogate: Decachlorobiphenyl	*1.83*		µg/L	2.00		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.03*		µg/L	2.00		102	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.12*		µg/L	2.00		106	30-150			
LCS Dup (B184311-BSD1)				Prepared: 08/17/17 Analyzed: 08/19/17						
Aroclor-1016	0.56	0.20	µg/L	0.500		112	40-140	6.92	20	
Aroclor-1016 [2C]	0.58	0.20	µg/L	0.500		116	40-140	6.58	20	
Aroclor-1260	0.47	0.20	µg/L	0.500		94.1	40-140	4.05	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.9	40-140	7.39	20	
Surrogate: Decachlorobiphenyl	*1.89*		µg/L	2.00		94.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.11*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.87*		µg/L	2.00		93.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.12*		µg/L	2.00		106	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 B184283 - SW-846 3540C										
Blank (B184283-BLK1)				Prepared: 08/16/17 Analyzed: 08/19/17						
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	*0.889*		mg/Kg	1.00		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.914*		mg/Kg	1.00		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.943*		mg/Kg	1.00		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.986*		mg/Kg	1.00		98.6	30-150			
LCS (B184283-BS1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.94	0.10	mg/Kg	1.00		93.9	40-140			
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.2	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		79.6	40-140			
Surrogate: Decachlorobiphenyl	*0.894*		mg/Kg	1.00		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.937*		mg/Kg	1.00		93.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.985*		mg/Kg	1.00		98.5	30-150			
LCS Dup (B184283-BSD1)				Prepared: 08/16/17 Analyzed: 08/19/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.6	40-140	2.54	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.3	40-140	0.0915	30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		80.0	40-140	0.963	30	
Aroclor-1260 [2C]	0.77	0.10	mg/Kg	1.00		77.0	40-140	3.33	30	
Surrogate: Decachlorobiphenyl	*0.879*		mg/Kg	1.00		87.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.907*		mg/Kg	1.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.905*		mg/Kg	1.00		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.948*		mg/Kg	1.00		94.8	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 B184498 - SW-846 3540C										
Blank (B184498-BLK1)				Prepared: 08/19/17 Analyzed: 08/24/17						
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	*0.188*		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.149*		mg/Kg wet	0.200		74.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.152*		mg/Kg wet	0.200		75.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		69.8	30-150			
LCS (B184498-BS1)				Prepared: 08/19/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.9	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.9	40-140			
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		63.1	40-140			
Surrogate: Decachlorobiphenyl	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg wet	0.200		70.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.146*		mg/Kg wet	0.200		73.1	30-150			
LCS Dup (B184498-BSD1)				Prepared: 08/19/17 Analyzed: 08/24/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.0	40-140	1.14	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		73.6	40-140	2.00	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.8	40-140	0.0948	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.6	40-140	2.32	30	
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.155*		mg/Kg wet	0.200		77.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		72.0	30-150			

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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 B184244 - % Solids										
Duplicate (B184244-DUP7)		**Source: 17H0711-01**		Prepared: 08/16/17 Analyzed: 08/17/17						
% Solids	58.6		% Wt		50.7			14.5	20	
Duplicate (B184244-DUP8)		**Source: 17H0711-02**		Prepared: 08/16/17 Analyzed: 08/17/17						
% Solids	37.2		% Wt		42.8			14.0	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-20

Lab Sample ID: 17H0711-02

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.28	
	2	0.000	-0.030	0.030	0.31	10.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-21

Lab Sample ID: 17H0711-03

Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.29	18.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-24

Lab Sample ID: 17H0711-06

Date(s) Analyzed: 08/24/2017 08/24/2017

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-1254	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.23	14.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-25

Lab Sample ID: 17H0711-07

Date(s) Analyzed: 08/24/2017 08/24/2017

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	0.34	
	2	0.000	-0.030	0.030	0.32	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-26

Lab Sample ID: 17H0711-08 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.84	
	2	0.000	-0.030	0.030	0.85	1.2
Aroclor-1254	1	0.000	-0.030	0.030	0.91	
	2	0.000	-0.030	0.030	1.0	9.4
Aroclor-1260	1	0.000	-0.030	0.030	0.48	
	2	0.000	-0.030	0.030	0.51	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-27

Lab Sample ID: 17H0711-09 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	1.3	
	2	0.000	-0.030	0.030	1.3	0.0
Aroclor-1254	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.3	8.0
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.53	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-28

Lab Sample ID: 17H0711-10 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1248	1	0.000	-0.030	0.030	0.94	
	2	0.000	-0.030	0.030	0.90	4.4
Aroclor-1254	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	1.1	14.6
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.58	12.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-Dup-1

Lab Sample ID: 17H0711-12 Date(s) Analyzed: 08/24/2017 08/24/2017

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-1254	1	0.000	-0.030	0.030	0.40	
	2	0.000	-0.030	0.030	0.61	41.6
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.31	3.2

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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.
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.

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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
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 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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
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

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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17H0711

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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 via Soxhlet	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC14-SE-19	8/11/17	900		X	S	U	X			
2	WS-AOC14-SE-20		915					X			
3	WS-AOC14-SE-21		930					X			
4	WS-AOC14-SE-22		945					X			
5	WS-AOC14-SE-23		1100					X			
6	WS-AOC14-SE-24		1130					X			
7	WS-AOC14-SE-25		1200					X			
8	WS-AOC14-SE-26		1230					X			
9	WS-AOC14-SE-27		1245					X			
10	WS-AOC14-SE-28		1300					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
SL = Sludge
SOL = Solid
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) 8/11/17	Date/Time: 14:45
Received by: (signature) 8/11/17	Date/Time: 14:45
Relinquished by: (signature) 8/11/17	Date/Time: 18:02
Received by: (signature) 8/11/17	Date/Time: 1802
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT Res Dec
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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17H0711

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

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

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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 via Soxhlet	PCBs									# of Containers
								1	2									[2] Preservation Code
								1	1									[3] Container Code
								A	A									
11	WS-AOC14-Co-26	8/11/17	1400		X	O	U	X										
12	~~DUP~~ WS-AOC14-SE-Dp-1	↓			X	S	U	X										
13	Equipment Blank-38		1415		X	W	U		X									
14	Equipment Blank-39	↓	1420		X	W	U		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
SL = Sludge
SOL = Solid
O = Other (please define) Concrete

[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: 8/11/17 14:45
Received by: (signature)	Date/Time: 8/11/17 14:45
Relinquished by: (signature)	Date/Time: 8/11/17 18:02
Received by: (signature) S.O.	Date/Time: 8/11/17 1802
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT Res Dec
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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East Longmeadow, MA. 01028
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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 8/11/17 Time 1802

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 - 5.0
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.	4	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	11
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	1
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: 17H0711

Laboratory Sample ID(s):

17H0711-01 thru 17H0711-14

Sample Date(s):

08/11/2017

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:** **08/24/17**

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 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: 17H0854

Enclosed are results of analyses for samples received by the laboratory on August 15, 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: 8/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0854

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-14-SE-29	17H0854-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-30	17H0854-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-31	17H0854-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-32	17H0854-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-33	17H0854-05	Soil		SM 2540G	
				SW-846 8082A	
EB-40	17H0854-06	Equipment Blank Water		SW-846 8082A	
EB-41	17H0854-07	Equipment Blank Water		SW-846 8082A	
WS-AOC-8-AS-1	17H0854-08	Product/Solid		SW-846 8082A	
WS-AOC-8-AS-2	17H0854-09	Product/Solid		SW-846 8082A	
WS-AOC-8-AS-5	17H0854-10	Product/Solid		SW-846 8082A	
WS-AOC-8-CO-20	17H0854-11	Concrete		SW-846 8082A	
WS-AOC-8-CO-21	17H0854-12	Concrete		SW-846 8082A	
WS-AOC-8-CO-19	17H0854-13	Concrete		SW-846 8082A	
WS-AOC-8-CO-18	17H0854-14	Concrete		SW-846 8082A	
WS-AOC-8-CO-17	17H0854-15	Concrete		SW-846 8082A	
WS-AOC-8-CO-16	17H0854-16	Concrete		SW-846 8082A	
WS-AOC-8-CO-DUP-9	17H0854-17	Concrete		SW-846 8082A	
WS-AOC-7-CO-31	17H0854-18	Concrete		SW-846 8082A	
WS-AOC-7-CO-39	17H0854-19	Concrete		SW-846 8082A	
WS-AOC-7-CO-38	17H0854-20	Concrete		SW-846 8082A	
WS-AOC-7-CO-34	17H0854-21	Concrete		SW-846 8082A	
WS-AOC-7-CO-35	17H0854-22	Concrete		SW-846 8082A	
WS-AOC-7-CO-37	17H0854-23	Concrete		SW-846 8082A	
WS-AOC-7-CO-DUP-8	17H0854-24	Concrete		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 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H0854-09RE1[WS-AOC-8-AS-2]

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-1260 [2C]
17H0854-03[WS-AOC-14-SE-31]

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
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1016 [2C]
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1260
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1
Aroclor-1260 [2C]
17H0854-01[WS-AOC-14-SE-29], 17H0854-02[WS-AOC-14-SE-30], 17H0854-03[WS-AOC-14-SE-31], 17H0854-04[WS-AOC-14-SE-32], 17H0854-05[WS-AOC-14-SE-33], B184281-BLK1, B184281-BS1, B184281-BSD1

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B184578-MS1, B184578-MS2, B184578-MSD1, B184578-MSD2

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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-29 Sampled: 8/14/2017 12:30

Sample ID: 17H0854-01

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	0.33	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1248 [2]	1.9	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1254 [2]	2.1	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1260 [2]	0.87	0.33	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.33	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		8/21/17 18:20
Decachlorobiphenyl [2]	85.0	30-150		8/21/17 18:20
Tetrachloro-m-xylene [1]	88.7	30-150		8/21/17 18:20
Tetrachloro-m-xylene [2]	97.7	30-150		8/21/17 18:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-29 Sampled: 8/14/2017 12:30

Sample ID: 17H0854-01

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	30.0		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-30 Sampled: 8/14/2017 13:00

Sample ID: 17H0854-02

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	0.32	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1221 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1232 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1242 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1248 [2]	0.50	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1254 [2]	0.65	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1260 [2]	0.47	0.32	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1262 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL
Aroclor-1268 [1]	ND	0.32	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.6	30-150		8/21/17 18:38
Decachlorobiphenyl [2]	87.8	30-150		8/21/17 18:38
Tetrachloro-m-xylene [1]	84.0	30-150		8/21/17 18:38
Tetrachloro-m-xylene [2]	95.1	30-150		8/21/17 18:38

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-30 Sampled: 8/14/2017 13:00

Sample ID: 17H0854-02

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	31.0		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-31 Sampled: 8/14/2017 13:30

Sample ID: 17H0854-03

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	0.34	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1221 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1232 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1242 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1248 [2]	0.52	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1254 [2]	0.57	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1260 [2]	0.50	0.34	mg/Kg dry	5	P-01, R-05	SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1262 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL
Aroclor-1268 [1]	ND	0.34	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 18:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		8/21/17 18:56
Decachlorobiphenyl [2]	90.5	30-150		8/21/17 18:56
Tetrachloro-m-xylene [1]	85.8	30-150		8/21/17 18:56
Tetrachloro-m-xylene [2]	98.2	30-150		8/21/17 18:56

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-31 Sampled: 8/14/2017 13:30

Sample ID: 17H0854-03

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	29.4		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-32 Sampled: 8/14/2017 13:45

Sample ID: 17H0854-04

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	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1248 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1254 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1260 [2]	0.53	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.5	30-150		8/21/17 19:14
Decachlorobiphenyl [2]	82.5	30-150		8/21/17 19:14
Tetrachloro-m-xylene [1]	78.3	30-150		8/21/17 19:14
Tetrachloro-m-xylene [2]	88.8	30-150		8/21/17 19:14

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-32 Sampled: 8/14/2017 13:45

Sample ID: 17H0854-04

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	26.2		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-33 Sampled: 8/14/2017 14:15

Sample ID: 17H0854-05

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	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1221 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1232 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1242 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1248 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1254 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1260 [2]	0.58	0.38	mg/Kg dry	5	R-05	SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1262 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL
Aroclor-1268 [1]	ND	0.38	mg/Kg dry	5		SW-846 8082A	8/16/17	8/21/17 19:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		8/21/17 19:31
Decachlorobiphenyl [2]	91.4	30-150		8/21/17 19:31
Tetrachloro-m-xylene [1]	87.0	30-150		8/21/17 19:31
Tetrachloro-m-xylene [2]	107	30-150		8/21/17 19:31

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-14-SE-33 Sampled: 8/14/2017 14:15

Sample ID: 17H0854-05

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	26.5		% Wt	1		SM 2540G	8/17/17	8/18/17 6:57	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: 17H0854

Date Received: 8/15/2017

Field Sample #: EB-40 Sampled: 8/14/2017 14:00

Sample ID: 17H0854-06

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	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.7	30-150		8/22/17 12:35
Decachlorobiphenyl [2]	87.4	30-150		8/22/17 12:35
Tetrachloro-m-xylene [1]	84.7	30-150		8/22/17 12:35
Tetrachloro-m-xylene [2]	85.2	30-150		8/22/17 12:35

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: EB-41 Sampled: 8/15/2017 07:00

Sample ID: 17H0854-07

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	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/20/17	8/22/17 12:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.3	30-150		8/22/17 12:47
Decachlorobiphenyl [2]	59.0	30-150		8/22/17 12:47
Tetrachloro-m-xylene [1]	83.2	30-150		8/22/17 12:47
Tetrachloro-m-xylene [2]	82.9	30-150		8/22/17 12:47

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-1 Sampled: 8/15/2017 11:05

Sample ID: 17H0854-08

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	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 16:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		8/25/17 16:59
Decachlorobiphenyl [2]	78.4	30-150		8/25/17 16:59
Tetrachloro-m-xylene [1]	68.9	30-150		8/25/17 16:59
Tetrachloro-m-xylene [2]	64.1	30-150		8/25/17 16:59

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-2 Sampled: 8/15/2017 11:00

Sample ID: 17H0854-09

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1221 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1232 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1242 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1248 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1254 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1260 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1262 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB
Aroclor-1268 [1]	ND	0.95	mg/Kg	10		SW-846 8082A	8/26/17	8/27/17 19:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		8/27/17 19:26
Decachlorobiphenyl [2]	73.1	30-150		8/27/17 19:26
Tetrachloro-m-xylene [1]	96.1	30-150		8/27/17 19:26
Tetrachloro-m-xylene [2]	94.8	30-150		8/27/17 19:26

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-AS-5 Sampled: 8/15/2017 11:10

Sample ID: 17H0854-10

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	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.5	30-150		8/25/17 17:34
Decachlorobiphenyl [2]	69.9	30-150		8/25/17 17:34
Tetrachloro-m-xylene [1]	62.6	30-150		8/25/17 17:34
Tetrachloro-m-xylene [2]	57.2	30-150		8/25/17 17:34

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-20 Sampled: 8/15/2017 11:30

Sample ID: 17H0854-11

Sample Matrix: Concrete

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	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 17:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.0	30-150		8/25/17 17:52
Decachlorobiphenyl [2]	58.8	30-150		8/25/17 17:52
Tetrachloro-m-xylene [1]	59.9	30-150		8/25/17 17:52
Tetrachloro-m-xylene [2]	51.3	30-150		8/25/17 17:52

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-21 Sampled: 8/15/2017 11:35

Sample ID: 17H0854-12

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		8/25/17 18:09
Decachlorobiphenyl [2]	76.7	30-150		8/25/17 18:09
Tetrachloro-m-xylene [1]	85.4	30-150		8/25/17 18:09
Tetrachloro-m-xylene [2]	69.1	30-150		8/25/17 18:09

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-19 Sampled: 8/15/2017 11:25

Sample ID: 17H0854-13

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.4	30-150		8/25/17 18:27
Decachlorobiphenyl [2]	72.2	30-150		8/25/17 18:27
Tetrachloro-m-xylene [1]	80.0	30-150		8/25/17 18:27
Tetrachloro-m-xylene [2]	73.5	30-150		8/25/17 18:27

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-18 Sampled: 8/15/2017 11:20

Sample ID: 17H0854-14

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 18:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.7	30-150		8/25/17 18:44
Decachlorobiphenyl [2]	79.3	30-150		8/25/17 18:44
Tetrachloro-m-xylene [1]	73.6	30-150		8/25/17 18:44
Tetrachloro-m-xylene [2]	66.1	30-150		8/25/17 18:44

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-17 Sampled: 8/15/2017 11:15

Sample ID: 17H0854-15

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		8/25/17 19:02
Decachlorobiphenyl [2]	78.5	30-150		8/25/17 19:02
Tetrachloro-m-xylene [1]	88.4	30-150		8/25/17 19:02
Tetrachloro-m-xylene [2]	74.4	30-150		8/25/17 19:02

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-16 Sampled: 8/15/2017 11:40

Sample ID: 17H0854-16

Sample Matrix: Concrete

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	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:19	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.4	30-150		8/25/17 19:19
Decachlorobiphenyl [2]	67.1	30-150		8/25/17 19:19
Tetrachloro-m-xylene [1]	68.7	30-150		8/25/17 19:19
Tetrachloro-m-xylene [2]	66.6	30-150		8/25/17 19:19

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-8-CO-DUP-9 Sampled: 8/15/2017 00:00

Sample ID: 17H0854-17

Sample Matrix: Concrete

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	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 19:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/25/17 19:37
Decachlorobiphenyl [2]	64.0	30-150		8/25/17 19:37
Tetrachloro-m-xylene [1]	63.9	30-150		8/25/17 19:37
Tetrachloro-m-xylene [2]	59.3	30-150		8/25/17 19:37

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-31 Sampled: 8/15/2017 12:00

Sample ID: 17H0854-18

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		8/25/17 20:41
Decachlorobiphenyl [2]	74.7	30-150		8/25/17 20:41
Tetrachloro-m-xylene [1]	77.9	30-150		8/25/17 20:41
Tetrachloro-m-xylene [2]	70.6	30-150		8/25/17 20:41

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-39 Sampled: 8/15/2017 11:45

Sample ID: 17H0854-19

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 20:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.2	30-150		8/25/17 20:59
Decachlorobiphenyl [2]	85.3	30-150		8/25/17 20:59
Tetrachloro-m-xylene [1]	98.0	30-150		8/25/17 20:59
Tetrachloro-m-xylene [2]	79.9	30-150		8/25/17 20:59

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-38 Sampled: 8/15/2017 12:10

Sample ID: 17H0854-20

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 21:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		8/25/17 21:16
Decachlorobiphenyl [2]	86.4	30-150		8/25/17 21:16
Tetrachloro-m-xylene [1]	97.4	30-150		8/25/17 21:16
Tetrachloro-m-xylene [2]	79.3	30-150		8/25/17 21:16

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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-34 Sampled: 8/15/2017 12:20

Sample ID: 17H0854-21

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1260 [1]	0.12	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		8/26/17 12:03
Decachlorobiphenyl [2]	65.2	30-150		8/26/17 12:03
Tetrachloro-m-xylene [1]	85.0	30-150		8/26/17 12:03
Tetrachloro-m-xylene [2]	71.5	30-150		8/26/17 12:03

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-35 Sampled: 8/15/2017 12:40

Sample ID: 17H0854-22

Sample Matrix: Concrete

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	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		8/26/17 12:21
Decachlorobiphenyl [2]	74.9	30-150		8/26/17 12:21
Tetrachloro-m-xylene [1]	70.7	30-150		8/26/17 12:21
Tetrachloro-m-xylene [2]	66.3	30-150		8/26/17 12:21

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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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-37 Sampled: 8/15/2017 13:00

Sample ID: 17H0854-23

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1260 [1]	0.18	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	8/21/17	8/26/17 12:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.2	30-150		8/26/17 12:39
Decachlorobiphenyl [2]	62.6	30-150		8/26/17 12:39
Tetrachloro-m-xylene [1]	92.3	30-150		8/26/17 12:39
Tetrachloro-m-xylene [2]	83.3	30-150		8/26/17 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: 17H0854

Date Received: 8/15/2017

Field Sample #: WS-AOC-7-CO-DUP-8 Sampled: 8/15/2017 00:00

Sample ID: 17H0854-24

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	8/21/17	8/25/17 22:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		8/25/17 22:26
Decachlorobiphenyl [2]	83.9	30-150		8/25/17 22:26
Tetrachloro-m-xylene [1]	93.9	30-150		8/25/17 22:26
Tetrachloro-m-xylene [2]	80.7	30-150		8/25/17 22:26

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0854-01 [WS-AOC-14-SE-29]	B184295	08/17/17
17H0854-02 [WS-AOC-14-SE-30]	B184295	08/17/17
17H0854-03 [WS-AOC-14-SE-31]	B184295	08/17/17
17H0854-04 [WS-AOC-14-SE-32]	B184295	08/17/17
17H0854-05 [WS-AOC-14-SE-33]	B184295	08/17/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-08 [WS-AOC-8-AS-1]	B184578	2.00	10.0	08/21/17
17H0854-10 [WS-AOC-8-AS-5]	B184578	2.01	10.0	08/21/17
17H0854-11 [WS-AOC-8-CO-20]	B184578	2.00	10.0	08/21/17
17H0854-12 [WS-AOC-8-CO-21]	B184578	2.03	10.0	08/21/17
17H0854-13 [WS-AOC-8-CO-19]	B184578	2.02	10.0	08/21/17
17H0854-14 [WS-AOC-8-CO-18]	B184578	2.02	10.0	08/21/17
17H0854-15 [WS-AOC-8-CO-17]	B184578	2.03	10.0	08/21/17
17H0854-16 [WS-AOC-8-CO-16]	B184578	2.01	10.0	08/21/17
17H0854-17 [WS-AOC-8-CO-DUP-9]	B184578	2.00	10.0	08/21/17
17H0854-18 [WS-AOC-7-CO-31]	B184578	2.05	10.0	08/21/17
17H0854-19 [WS-AOC-7-CO-39]	B184578	2.03	10.0	08/21/17
17H0854-20 [WS-AOC-7-CO-38]	B184578	2.04	10.0	08/21/17
17H0854-21 [WS-AOC-7-CO-34]	B184578	2.05	10.0	08/21/17
17H0854-22 [WS-AOC-7-CO-35]	B184578	2.00	10.0	08/21/17
17H0854-23 [WS-AOC-7-CO-37]	B184578	2.03	10.0	08/21/17
17H0854-24 [WS-AOC-7-CO-DUP-8]	B184578	2.04	10.0	08/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-09RE1 [WS-AOC-8-AS-2]	B184989	2.10	10.0	08/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H0854-01 [WS-AOC-14-SE-29]	B184281	10.0	10.0	08/16/17
17H0854-02 [WS-AOC-14-SE-30]	B184281	10.0	10.0	08/16/17
17H0854-03 [WS-AOC-14-SE-31]	B184281	10.0	10.0	08/16/17
17H0854-04 [WS-AOC-14-SE-32]	B184281	10.0	10.0	08/16/17
17H0854-05 [WS-AOC-14-SE-33]	B184281	10.0	10.0	08/16/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0854-06 [EB-40]	B184505	950	9.50	08/20/17
17H0854-07 [EB-41]	B184505	1000	10.0	08/20/17

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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 B184505 - SW-846 3510C										
Blank (B184505-BLK1)				Prepared: 08/20/17 Analyzed: 08/22/17						
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	*1.79*		µg/L	2.00		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.81*		µg/L	2.00		90.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.68*		µg/L	2.00		84.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		84.2	30-150			
LCS (B184505-BS1)				Prepared: 08/20/17 Analyzed: 08/22/17						
Aroclor-1016	0.54	0.20	µg/L	0.500		108	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1260	0.41	0.20	µg/L	0.500		81.2	40-140			
Aroclor-1260 [2C]	0.41	0.20	µg/L	0.500		82.3	40-140			
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.88*		µg/L	2.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.67*		µg/L	2.00		83.4	30-150			
LCS Dup (B184505-BSD1)				Prepared: 08/20/17 Analyzed: 08/22/17						
Aroclor-1016	0.48	0.20	µg/L	0.500		97.0	40-140	10.6	20	
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.7	40-140	4.22	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.9	40-140	5.38	20	
Aroclor-1260 [2C]	0.40	0.20	µg/L	0.500		79.2	40-140	3.82	20	
Surrogate: Decachlorobiphenyl	*1.64*		µg/L	2.00		82.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.66*		µg/L	2.00		83.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.52*		µg/L	2.00		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.53*		µg/L	2.00		76.3	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 B184281 - SW-846 3540C											
Blank (B184281-BLK1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	ND	0.020	mg/Kg wet								R-05
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet								R-05
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								R-05
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet								R-05
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	*0.175*		mg/Kg wet	0.200		87.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.7	30-150				
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.6	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150				
LCS (B184281-BS1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140				R-05
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.2	40-140				R-05
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.5	40-140				R-05
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140				R-05
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.7	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg wet	0.200		90.3	30-150				
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150				
LCS Dup (B184281-BSD1)				Prepared: 08/16/17 Analyzed: 08/21/17							
Aroclor-1016	0.12	0.020	mg/Kg wet	0.200		59.6	40-140	**36.2**	*	30	R-05
Aroclor-1016 [2C]	0.13	0.020	mg/Kg wet	0.200		66.3	40-140	**31.5**	*	30	R-05
Aroclor-1260	0.11	0.020	mg/Kg wet	0.200		53.3	40-140	**36.9**	*	30	R-05
Aroclor-1260 [2C]	0.11	0.020	mg/Kg wet	0.200		55.1	40-140	**31.8**	*	30	R-05
Surrogate: Decachlorobiphenyl	*0.122*		mg/Kg wet	0.200		61.1	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.127*		mg/Kg wet	0.200		63.4	30-150				
Surrogate: Tetrachloro-m-xylene	*0.120*		mg/Kg wet	0.200		59.9	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.129*		mg/Kg wet	0.200		64.7	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 B184578 - SW-846 3540C										
Blank (B184578-BLK1)				Prepared: 08/21/17 Analyzed: 08/23/17						
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	*0.837*		mg/Kg	1.00		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.808*		mg/Kg	1.00		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.819*		mg/Kg	1.00		81.9	30-150			
LCS (B184578-BS1)				Prepared: 08/21/17 Analyzed: 08/23/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.5	40-140			
Aroclor-1016 [2C]	0.92	0.10	mg/Kg	1.00		91.8	40-140			
Aroclor-1260	0.79	0.10	mg/Kg	1.00		78.7	40-140			
Aroclor-1260 [2C]	0.80	0.10	mg/Kg	1.00		80.2	40-140			
Surrogate: Decachlorobiphenyl	*0.872*		mg/Kg	1.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.832*		mg/Kg	1.00		83.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.821*		mg/Kg	1.00		82.1	30-150			
LCS Dup (B184578-BSD1)				Prepared: 08/21/17 Analyzed: 08/23/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00		89.7	40-140	0.938	30	
Aroclor-1016 [2C]	0.94	0.10	mg/Kg	1.00		94.0	40-140	2.37	30	
Aroclor-1260	0.79	0.10	mg/Kg	1.00		78.8	40-140	0.0915	30	
Aroclor-1260 [2C]	0.81	0.10	mg/Kg	1.00		81.0	40-140	0.978	30	
Surrogate: Decachlorobiphenyl	*0.844*		mg/Kg	1.00		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.829*		mg/Kg	1.00		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.809*		mg/Kg	1.00		80.9	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 B184578 - SW-846 3540C										
Matrix Spike (B184578-MS1)		**Source: 17H0854-11**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.79	0.099	mg/Kg	0.990	ND	79.8	40-140			
Aroclor-1016 [2C]	0.75	0.099	mg/Kg	0.990	ND	75.9	40-140			
Aroclor-1260	0.86	0.099	mg/Kg	0.990	ND	86.9	40-140			
Aroclor-1260 [2C]	0.89	0.099	mg/Kg	0.990	ND	89.8	40-140			V-06
Surrogate: Decachlorobiphenyl	*0.924*		mg/Kg	0.990		93.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.882*		mg/Kg	0.990		89.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.903*		mg/Kg	0.990		91.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.696*		mg/Kg	0.990		70.3	30-150			
Matrix Spike (B184578-MS2)		**Source: 17H0854-18**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.76	0.099	mg/Kg	0.985	ND	77.0	40-140			
Aroclor-1016 [2C]	0.72	0.099	mg/Kg	0.985	ND	72.8	40-140			
Aroclor-1260	0.82	0.099	mg/Kg	0.985	ND	83.0	40-140			
Aroclor-1260 [2C]	0.85	0.099	mg/Kg	0.985	ND	85.8	40-140			V-06
Surrogate: Decachlorobiphenyl	*0.886*		mg/Kg	0.985		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.866*		mg/Kg	0.985		87.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.875*		mg/Kg	0.985		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.692*		mg/Kg	0.985		70.3	30-150			
Matrix Spike Dup (B184578-MSD1)		**Source: 17H0854-11**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00	ND	90.2	40-140	13.1	50	
Aroclor-1016 [2C]	0.90	0.10	mg/Kg	1.00	ND	90.1	40-140	18.1	50	
Aroclor-1260	0.90	0.10	mg/Kg	1.00	ND	89.8	40-140	4.27	50	
Aroclor-1260 [2C]	0.94	0.10	mg/Kg	1.00	ND	94.3	40-140	5.89	50	V-06
Surrogate: Decachlorobiphenyl	*0.899*		mg/Kg	1.00		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.893*		mg/Kg	1.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.923*		mg/Kg	1.00		92.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.755*		mg/Kg	1.00		75.5	30-150			
Matrix Spike Dup (B184578-MSD2)		**Source: 17H0854-18**		Prepared: 08/21/17 Analyzed: 08/25/17						
Aroclor-1016	0.82	0.10	mg/Kg	1.00	ND	82.5	40-140	8.32	50	
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00	ND	80.2	40-140	11.2	50	
Aroclor-1260	0.80	0.10	mg/Kg	1.00	ND	80.3	40-140	1.81	50	
Aroclor-1260 [2C]	0.84	0.10	mg/Kg	1.00	ND	84.4	40-140	0.116	50	V-06
Surrogate: Decachlorobiphenyl	*0.811*		mg/Kg	1.00		81.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.843*		mg/Kg	1.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.854*		mg/Kg	1.00		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.724*		mg/Kg	1.00		72.4	30-150			
Batch B184989 - SW-846 3540C										
Blank (B184989-BLK1)				Prepared: 08/26/17 Analyzed: 08/27/17						
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							

con-test® ANALYTICAL LABORATORY

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

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 B184989 - SW-846 3540C										
Blank (B184989-BLK1)				Prepared: 08/26/17 Analyzed: 08/27/17						
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	*0.852*		mg/Kg	1.00		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.891*		mg/Kg	1.00		89.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.855*		mg/Kg	1.00		85.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.913*		mg/Kg	1.00		91.3	30-150			
LCS (B184989-BS1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1016	0.98	0.10	mg/Kg	1.00		97.7	40-140			
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		105	40-140			
Aroclor-1260	0.84	0.10	mg/Kg	1.00		83.6	40-140			
Aroclor-1260 [2C]	0.88	0.10	mg/Kg	1.00		87.7	40-140			
Surrogate: Decachlorobiphenyl	*0.908*		mg/Kg	1.00		90.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.899*		mg/Kg	1.00		89.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.959*		mg/Kg	1.00		95.9	30-150			
LCS Dup (B184989-BSD1)				Prepared: 08/26/17 Analyzed: 08/27/17						
Aroclor-1016	1.0	0.10	mg/Kg	1.00		100	40-140	2.51	30	
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		107	40-140	1.03	30	
Aroclor-1260	0.86	0.10	mg/Kg	1.00		85.6	40-140	2.41	30	
Aroclor-1260 [2C]	0.90	0.10	mg/Kg	1.00		89.6	40-140	2.12	30	
Surrogate: Decachlorobiphenyl	*0.909*		mg/Kg	1.00		90.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.975*		mg/Kg	1.00		97.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101	30-150			

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

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 B184295 - % Solids										
Duplicate (B184295-DUP1)		**Source: 17H0854-01**		Prepared: 08/17/17 Analyzed: 08/18/17						
% Solids	27.4		% Wt		30.0			9.06	20	
Duplicate (B184295-DUP2)		**Source: 17H0854-03**		Prepared: 08/17/17 Analyzed: 08/18/17						
% Solids	29.5		% Wt		29.4			0.340	20	

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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-AOC-14-SE-29

Lab Sample ID: 17H0854-01

Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	1.7	
	2	0.000	-0.030	0.030	1.9	11.1
Aroclor-1254	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	2.1	27.0
Aroclor-1260	1	0.000	-0.030	0.030	0.75	
	2	0.000	-0.030	0.030	0.87	14.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-30

Lab Sample ID: 17H0854-02 Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.50	27.3
Aroclor-1254	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.65	24.1
Aroclor-1260	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.47	23.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-31

Lab Sample ID: 17H0854-03

Date(s) Analyzed: 08/21/2017 08/21/2017

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-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.52	31.1
Aroclor-1254	1	0.000	-0.030	0.030	0.40	
	2	0.000	-0.030	0.030	0.57	35.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-33

Lab Sample ID: 17H0854-05

Date(s) Analyzed: 08/21/2017 08/21/2017

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	0.58	27.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-7-CO-34

Lab Sample ID: 17H0854-21

Date(s) Analyzed: 08/26/2017 08/26/2017

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	0.12	
	2	0.000	0.000	0.000	0.10	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-7-CO-37

Lab Sample ID: 17H0854-23

Date(s) Analyzed: 08/26/2017 08/26/2017

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	0.18	
	2	0.000	0.000	0.000	0.17	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.

DL-03	Elevated reporting limit due to matrix.
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.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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 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
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 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

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 8082A in Water	
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

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

17H0054

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

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

Requested Turnaround Time
7-Day [X] 10-Day [ ]
Due Date:

Rush-Approval Required
1-Day [ ] 3-Day [ ]
2-Day [ ] 4-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like Data Pkg Required: [ ]
Email To: beckers@ewscinc.com
Fax To #:

Company Name: Weston & Sampson
Address: 273 Divided Rd. Rocky Hill, CT
Phone: 800 SAMPSON
Project Name: English Station
Project Location: 510 Grand Ave New Haven, CT
Project Number: 0170495
Project Manager: Malcolm Becker
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB's
1	WS-AOC-14-SE-29	8/14/17	1230		X	S	U	X
2	WS-AOC-14-SE-30		1300		X			X
3	WS-AOC-14-SE-31		1330		X			X
4	WS-AOC-14-SE-32		1345		X			X
5	WS-AOC-14-SE-33		1415		X			X
6	EB-40		1400		X	O		X
7	EB-41	8/15/17	0700		X	O		X
8	WS-AOC-8-AS-1		1105		X	O		X
9	WS-AOC-8-AS-2		1100		X	O		X
10	WS-AOC-8-AS-5		1110		X	O		X

Comments:

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

	Date/Time
Relinquished by: (signature)	8/15/17 1510
Received by: (signature)	8/15/17 1510
Relinquished by: (signature)	8/15/17 1420
Received by: (signature) 9.6°C/4.1°C 16:20	8/15/17
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT DEC
Other

Special Requirements
[ ] MA MCP Required
MCP Certification Form Required
[X] CT RCP Required
RCP Certification Form Required
[ ] MA State DW Required
PWSID #

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Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

# 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
SL = Sludge
SOL = Solid
O = Other (please define) DI/Porous Media

[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)

Table of Contents

17H0854

con-test ANALYTICAL LABORATORY

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson.
Address: 973 Dividend Rd Rocky Hill, CT
Phone: 800-SAMPSON.
Project Name: English Station.
Project Location: 510 Ground Ave New Haven, CT
Project Number: 2170495.
Project Manager: Malcolm Beeler.
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day [X] 10-Day [ ]
Due Date:

Rush-Approval Required
1-Day [ ] 3-Day [ ]
2-Day [ ] 4-Day [ ]

Data Delivery
Format: PDF [X] EXCEL [X]
Other:
CLP Like Data Pkg Required: [ ]
Email To: Beelerm@wsscinc.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
11	WS-AOC-8-CO-20	8/15/17	1130		X	O	U	X
12	WS-AOC-8-CO-21		1135					
13	WS-AOC-8-CO-19		1125					
14	WS-AOC-8-CO-18		1120					
15	WS-AOC-8-CO-17		1115					
16	WS-AOC-8-CO-16		1140					
17	WS-AOC-8-CO-DUP-7		—					
18	WS-AOC-7-CO-31		1200					
19	WS-AOC-7-CO-39		1145					
20	WS-AOC-7-CO-38		1210					

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
O Field Filtered
O Lab to Filter

Orthophosphate Samples
O Field Filtered
O Lab to Filter

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

[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-AOC-8-CO-20 is MS/MSD.
WS-AOC-7-CO-31 is MS/MSD.

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: 8/15/17 1510
Received by: (signature)	Date/Time: 8/15/17 1510
Relinquished by: (signature)	Date/Time: 8/15/17 1620
Received by: (signature) 4.6°C/Ice 8/15/17	Date/Time: 16:20
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT DEC
Other

Special Requirements
[ ] MA MCP Required
MCP Certification Form Required
[X] CT RCP Required
RCP Certification Form Required
[ ] MA State DW Required
PWSID #

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Project Entity
[ ] Government [ ] Municipality [ ] MWRA [ ] WRTA
[ ] Federal [ ] 21 J [ ] School
[ ] City [ ] Brownfield [ ] MBTA

Other
[ ] Chromatogram
[ ] AIHA-LAP,LLC

PCB ONLY
[ ] Soxhlet
[ ] Non Soxhlet

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17H0854

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name: Weston & Sampson.
Address: 273 Dividend Rd Rocky Hill CT
Phone: 800 SAMPSON
Project Name: English Station.
Project Location: 510 Grand Ave New Haven, CT
Project Number: 2170495.
Project Manager:
Con-Test Quote Name/Number:
Invoice Recipient:
Sampled By: TPS

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: BeckerM@wsecnc.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											# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC-7-CO-34	8/15/17	1200		X	O	U	X													
22	WS-AOC-7-CO-35	↓	1240		X	O	U	X													
23	WS-AOC-7-CO-37	↓	1300		X	O	U	X													
24	WS-AOC-7-CO-DUP-8	↓	—		X	O	U	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
SL = Sludge
SOL = Solid
O = Other (please define) porous media

[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 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: 8/15/17 1510
Received by: (signature)	Date/Time: 8/15/17 1510
Relinquished by: (signature)	Date/Time: 8/15/17 1621
Received by: (signature) 8.1°C/4.6°C 8/15/17	Date/Time: 16:20
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: DEC.
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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39 Spruce St.
East Longmeadow, MA. 01028
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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 WCG Date 8/15/17 Time 16:20

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/4.6°C
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? 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? 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? Acid N/A Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	4	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz ~~Amb~~/Clear	5
Meoh-		250 mL Amb.		250 mL Plastic		4oz ~~Amb~~/Clear	21
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: 17H0854

Laboratory Sample ID(s):

17H0854-01 thru 17H0854-24

Sample Date(s):

08/14/2017,
08/15/2017

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:** **08/28/17**

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 24, 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: 17H0959

Enclosed are results of analyses for samples received by the laboratory on August 17, 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: 8/24/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H0959

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-AOC2-SO-2-1	17H0959-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC2-SO-3-1	17H0959-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC2-SO-1-1	17H0959-03	Soil		SM 2540G	
				SW-846 8270D	

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.

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.

Daren J. Damboragian
Director of Operations

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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0959-01

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	92.5		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-2-1 Sampled: 8/3/2017 09:10

Sample ID: 17H0959-01

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	8/23/17	8/24/17 12:19	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Phenanthrene (SIM)	0.13	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:19	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	83.0	30-130		8/24/17 12:19
2-Fluorobiphenyl	80.4	30-130		8/24/17 12:19
p-Terphenyl-d14	64.7	30-130		8/24/17 12:19

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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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0959-02

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	92.1		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-3-1 Sampled: 8/3/2017 09:35

Sample ID: 17H0959-02

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	8/23/17	8/24/17 12:47	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(b)fluoranthene (SIM)	0.058	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Phenanthrene (SIM)	0.48	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 12:47	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.3	30-130		8/24/17 12:47
2-Fluorobiphenyl	79.1	30-130		8/24/17 12:47
p-Terphenyl-d14	62.4	30-130		8/24/17 12:47

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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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0959-03

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	90.0		% Wt	1		SM 2540G	8/22/17	8/22/17 8:04	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: 17H0959

Date Received: 8/17/2017

Field Sample #: WS-AOC2-SO-1-1 Sampled: 8/3/2017 10:35

Sample ID: 17H0959-03

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)	0.63	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Anthracene (SIM)	0.32	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(a)anthracene (SIM)	0.051	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(b)fluoranthene (SIM)	0.057	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Fluoranthene (SIM)	0.66	0.50	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Phenanthrene (SIM)	0.97	0.050	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	8/23/17	8/24/17 13:16	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	81.7	30-130		8/24/17 13:16
2-Fluorobiphenyl	79.3	30-130		8/24/17 13:16
p-Terphenyl-d14	68.3	30-130		8/24/17 13:16

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H0959-01 [WS-AOC2-SO-2-1]	B183650	08/22/17
17H0959-02 [WS-AOC2-SO-3-1]	B183650	08/22/17
17H0959-03 [WS-AOC2-SO-1-1]	B183650	08/22/17

Prep Method: SW-846 3510C-SW-846 8270D **Leachates were extracted on 8/17/2017 per SW-846 1312 in Batch B184384**

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H0959-01 [WS-AOC2-SO-2-1]	B184797	1000	1.00	08/23/17
17H0959-02 [WS-AOC2-SO-3-1]	B184797	1000	1.00	08/23/17
17H0959-03 [WS-AOC2-SO-1-1]	B184797	1000	1.00	08/23/17

con-test® ANALYTICAL LABORATORY

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

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 B184797 - SW-846 3510C										
Blank (B184797-BLK1)				Prepared: 08/23/17 Analyzed: 08/24/17						
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	*81.9*		µg/L	100		81.9	30-130			
Surrogate: 2-Fluorobiphenyl	*80.8*		µg/L	100		80.8	30-130			
Surrogate: p-Terphenyl-d14	*70.1*		µg/L	100		70.1	30-130			
LCS (B184797-BS1)				Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	46.6	7.5	µg/L	50.0		93.2	40-140			
Acenaphthylene (SIM)	45.5	7.5	µg/L	50.0		91.0	40-140			
Anthracene (SIM)	48.7	5.0	µg/L	50.0		97.4	40-140			
Benzo(a)anthracene (SIM)	47.2	1.2	µg/L	50.0		94.5	40-140			
Benzo(a)pyrene (SIM)	50.5	2.5	µg/L	50.0		101	40-140			
Benzo(b)fluoranthene (SIM)	51.4	1.2	µg/L	50.0		103	40-140			
Benzo(g,h,i)perylene (SIM)	47.9	12	µg/L	50.0		95.8	40-140			
Benzo(k)fluoranthene (SIM)	50.2	5.0	µg/L	50.0		100	40-140			
Chrysene (SIM)	47.3	5.0	µg/L	50.0		94.6	40-140			
Dibenz(a,h)anthracene (SIM)	48.3	5.0	µg/L	50.0		96.6	40-140			
Fluoranthene (SIM)	47.7	12	µg/L	50.0		95.4	40-140			
Fluorene (SIM)	47.1	25	µg/L	50.0		94.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	47.9	5.0	µg/L	50.0		95.8	40-140			
2-Methylnaphthalene (SIM)	45.5	25	µg/L	50.0		91.0	40-140			
Naphthalene (SIM)	45.0	25	µg/L	50.0		90.0	40-140			
Phenanthrene (SIM)	47.6	1.2	µg/L	50.0		95.2	40-140			
Pyrene (SIM)	48.1	25	µg/L	50.0		96.2	40-140			
Surrogate: Nitrobenzene-d5	*98.6*		µg/L	100		98.6	30-130			
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	100		107	30-130			
Surrogate: p-Terphenyl-d14	*86.8*		µg/L	100		86.8	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 B184797 - SW-846 3510C										
LCS Dup (B184797-BSD1)				Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	47.8	7.5	µg/L	50.0		95.6	40-140	2.54	20	
Acenaphthylene (SIM)	46.6	7.5	µg/L	50.0		93.1	40-140	2.23	20	
Anthracene (SIM)	49.8	5.0	µg/L	50.0		99.5	40-140	2.13	20	
Benzo(a)anthracene (SIM)	48.4	1.2	µg/L	50.0		96.8	40-140	2.35	20	
Benzo(a)pyrene (SIM)	51.9	2.5	µg/L	50.0		104	40-140	2.78	20	
Benzo(b)fluoranthene (SIM)	52.4	1.2	µg/L	50.0		105	40-140	1.97	20	
Benzo(g,h,i)perylene (SIM)	49.6	12	µg/L	50.0		99.3	40-140	3.54	20	
Benzo(k)fluoranthene (SIM)	51.3	5.0	µg/L	50.0		103	40-140	2.17	20	
Chrysene (SIM)	48.6	5.0	µg/L	50.0		97.3	40-140	2.87	20	
Dibenz(a,h)anthracene (SIM)	50.0	5.0	µg/L	50.0		100	40-140	3.36	20	
Fluoranthene (SIM)	49.6	12	µg/L	50.0		99.2	40-140	3.80	20	
Fluorene (SIM)	48.5	25	µg/L	50.0		97.0	40-140	2.82	20	
Indeno(1,2,3-cd)pyrene (SIM)	49.6	5.0	µg/L	50.0		99.1	40-140	3.33	20	‡
2-Methylnaphthalene (SIM)	46.2	25	µg/L	50.0		92.3	40-140	1.36	20	
Naphthalene (SIM)	45.6	25	µg/L	50.0		91.1	40-140	1.21	20	
Phenanthrene (SIM)	49.0	1.2	µg/L	50.0		98.0	40-140	2.90	20	
Pyrene (SIM)	48.2	25	µg/L	50.0		96.4	40-140	0.208	20	
Surrogate: Nitrobenzene-d5	*98.6*		µg/L	100		98.6	30-130			
Surrogate: 2-Fluorobiphenyl	*107*		µg/L	100		107	30-130			
Surrogate: p-Terphenyl-d14	*86.3*		µg/L	100		86.3	30-130			
Matrix Spike (B184797-MS1)		**Source: 17H0959-02**		Prepared: 08/23/17 Analyzed: 08/24/17						
Acenaphthene (SIM)	47.5	7.5	µg/L	50.0	0.195	94.7	40-140			
Acenaphthylene (SIM)	46.2	7.5	µg/L	50.0	0.0310	92.3	40-140			
Anthracene (SIM)	49.0	5.0	µg/L	50.0	ND	98.0	40-140			
Benzo(a)anthracene (SIM)	47.2	1.2	µg/L	50.0	0.0470	94.4	40-140			
Benzo(a)pyrene (SIM)	50.6	2.5	µg/L	50.0	0.0430	101	40-140			
Benzo(b)fluoranthene (SIM)	50.9	1.2	µg/L	50.0	0.0580	102	40-140			
Benzo(g,h,i)perylene (SIM)	48.2	12	µg/L	50.0	0.0420	96.4	40-140			
Benzo(k)fluoranthene (SIM)	49.5	5.0	µg/L	50.0	0.0190	99.0	40-140			
Chrysene (SIM)	47.2	5.0	µg/L	50.0	0.0550	94.3	40-140			
Dibenz(a,h)anthracene (SIM)	48.6	5.0	µg/L	50.0	0.00800	97.1	40-140			
Fluoranthene (SIM)	48.7	12	µg/L	50.0	0.222	97.0	40-140			
Fluorene (SIM)	48.2	25	µg/L	50.0	0.125	96.2	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	48.3	5.0	µg/L	50.0	0.0340	96.5	40-140			
2-Methylnaphthalene (SIM)	46.1	25	µg/L	50.0	0.104	92.0	40-140			
Naphthalene (SIM)	46.0	25	µg/L	50.0	0.339	91.3	40-140			
Phenanthrene (SIM)	48.6	1.2	µg/L	50.0	0.483	96.3	40-140			
Pyrene (SIM)	47.8	25	µg/L	50.0	0.194	95.2	40-140			
Surrogate: Nitrobenzene-d5	*107*		µg/L	100		107	30-130			
Surrogate: 2-Fluorobiphenyl	*115*		µg/L	100		115	30-130			
Surrogate: p-Terphenyl-d14	*84.6*		µg/L	100		84.6	30-130			

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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.

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

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

17H0196

CHAIN O 17H0959

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	VOCs	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC2-SO-2-1	8/3/16	9:10		X	S	U	X	X	X	X			
02	WS-AOC2-SO-2-2		9:11					X	X	X	X			
03	WS-AOC2-SO-3-1		9:35					X	X	X	X			
04	WS-AOC2-SO-3-2		9:36					X	X	X	X			
05	WS-AOC2-SO-1-1		10:35					X	X	X	X			
06	WS-AOC2-SO-1-2		10:36					X	X	X	X			
07	WS-AOC2-SO-4-1		10:55					X	X	X	X			
08	WS-AOC2-SO-4-2		10:56					X	X	X	X			
09	TRIP BLANK										X			

activate for SPLP PAHs for the following:
WO#17H0196
WS-AOC2-SO-2-1
WS-AOC2-SO-3-1
WS-AOC2-SO-1-1

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-AOC2-SO-3-1 (MS-MSD) only for PCB and PAH!
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:
Shankar Patel	8/3/17 14:58
Received by: (signature)	Date/Time:
[illegible]	8-3-17 14:56
Relinquished by: (signature)	Date/Time:
[illegible]	8-3-17 4:45
Received by: (signature) 3.1°, 4.7	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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8/3/17 1645

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

17H0196

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) PCB	# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC2-SO-DUP-45	8/3/17			X	S	U	X			
11	WS-AOC2-SO-DUP-46	8/3/17			X	S	U	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]	8/3/17 14:58
Received by: (signature)	Date/Time:
[signature] 8-3-17	14:58
Relinquished by: (signature)	Date/Time:
[signature] 8-3-17	4:45
Received by: (signature) 3.1, 4.7	Date/Time:
[signature]	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

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8/3/17 1645

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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 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 ____

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.1°C, 4.7°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~~ T On COC? ~~NA~~ T
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	20
Meoh-	9	250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-	18	Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen: 8/3/17 1645	
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: 17H0959

Laboratory Sample ID(s):

17H0959-01 thru 17H0959-03

Sample Date(s):

08/03/2017

List RCP Methods Used:

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: **Position:** **Director of Operations**

Printed Name: **Daren J. Damboragian** **Date:** **08/24/17**

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 5, 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: 17H1163

Enclosed are results of analyses for samples received by the laboratory on August 21, 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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Case Narrative 4

Sample Results 5

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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: 9/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1163

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-AOC14-CO-29	17H1163-01	Concrete		SW-846 8082A	
WS-AOC14-CO-30	17H1163-02	Concrete		SW-846 8082A	
WS-AOC14-CO-32	17H1163-03	Concrete		SW-846 8082A	
WS-AOC14-CO-33	17H1163-04	Concrete		SW-846 8082A	
WS-AOC14-CO-34	17H1163-05	Concrete		SW-846 8082A	
WS-AOC14-CO-36	17H1163-06	Concrete		SW-846 8082A	
WS-AOC14-CO-37	17H1163-07	Concrete		SW-846 8082A	
WS-AOC14-SE-34	17H1163-08	Product/Solid		SW-846 8082A	
WS-AOC14-SE-35	17H1163-09	Product/Solid		SW-846 8082A	
WS-AOC14-SE-36	17H1163-10	Product/Solid		SW-846 8082A	
WS-AOC14-SE-37	17H1163-11	Product/Solid		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 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

B184889-BLK1, B184889-BS1, B184889-BSD1, B184889-MS1, B184889-MSD1

S-23

Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

Analyte & Samples(s) Qualified:

Tetrachloro-m-xylene

B184889-BSD1

Tetrachloro-m-xylene [2C]

B184889-BSD1

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: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-29 Sampled: 8/21/2017 13:00

Sample ID: 17H1163-01

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 6:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.1	30-150		8/31/17 6:55
Decachlorobiphenyl [2]	102	30-150		8/31/17 6:55
Tetrachloro-m-xylene [1]	96.0	30-150		8/31/17 6:55
Tetrachloro-m-xylene [2]	111	30-150		8/31/17 6:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-30 Sampled: 8/21/2017 13:10

Sample ID: 17H1163-02

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		8/31/17 7:13
Decachlorobiphenyl [2]	97.6	30-150		8/31/17 7:13
Tetrachloro-m-xylene [1]	90.9	30-150		8/31/17 7:13
Tetrachloro-m-xylene [2]	107	30-150		8/31/17 7:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-32 Sampled: 8/21/2017 13:20

Sample ID: 17H1163-03

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.2	30-150		8/31/17 7:30
Decachlorobiphenyl [2]	92.5	30-150		8/31/17 7:30
Tetrachloro-m-xylene [1]	87.9	30-150		8/31/17 7:30
Tetrachloro-m-xylene [2]	103	30-150		8/31/17 7:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-33 Sampled: 8/21/2017 13:30

Sample ID: 17H1163-04

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 7:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.3	30-150		8/31/17 7:48
Decachlorobiphenyl [2]	90.4	30-150		8/31/17 7:48
Tetrachloro-m-xylene [1]	83.3	30-150		8/31/17 7:48
Tetrachloro-m-xylene [2]	97.4	30-150		8/31/17 7:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-34 Sampled: 8/21/2017 13:40

Sample ID: 17H1163-05

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.0	30-150		8/31/17 8:06
Decachlorobiphenyl [2]	98.9	30-150		8/31/17 8:06
Tetrachloro-m-xylene [1]	93.5	30-150		8/31/17 8:06
Tetrachloro-m-xylene [2]	109	30-150		8/31/17 8:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-36 Sampled: 8/21/2017 13:50

Sample ID: 17H1163-06

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		8/31/17 8:23
Decachlorobiphenyl [2]	100	30-150		8/31/17 8:23
Tetrachloro-m-xylene [1]	85.8	30-150		8/31/17 8:23
Tetrachloro-m-xylene [2]	103	30-150		8/31/17 8:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-CO-37 Sampled: 8/21/2017 14:00

Sample ID: 17H1163-07

Sample Matrix: Concrete

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	8/31/17 8:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		8/31/17 8:41
Decachlorobiphenyl [2]	98.7	30-150		8/31/17 8:41
Tetrachloro-m-xylene [1]	93.5	30-150		8/31/17 8:41
Tetrachloro-m-xylene [2]	110	30-150		8/31/17 8:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-34 Sampled: 8/21/2017 13:45

Sample ID: 17H1163-08

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1248 [1]	0.25	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1254 [2]	0.26	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1260 [2]	0.20	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 14:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/2/17 14:54
Decachlorobiphenyl [2]	68.3	30-150		9/2/17 14:54
Tetrachloro-m-xylene [1]	81.7	30-150		9/2/17 14:54
Tetrachloro-m-xylene [2]	78.5	30-150		9/2/17 14:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-35 Sampled: 8/21/2017 13:42

Sample ID: 17H1163-09

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1248 [2]	0.16	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1254 [2]	0.20	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1260 [2]	0.22	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.7	30-150		9/2/17 15:12
Decachlorobiphenyl [2]	82.6	30-150		9/2/17 15:12
Tetrachloro-m-xylene [1]	96.4	30-150		9/2/17 15:12
Tetrachloro-m-xylene [2]	91.5	30-150		9/2/17 15:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-36 Sampled: 8/21/2017 13:50

Sample ID: 17H1163-10

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1248 [1]	0.12	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1254 [2]	0.15	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1260 [2]	0.15	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/2/17 15:30
Decachlorobiphenyl [2]	74.1	30-150		9/2/17 15:30
Tetrachloro-m-xylene [1]	88.7	30-150		9/2/17 15:30
Tetrachloro-m-xylene [2]	86.0	30-150		9/2/17 15:30

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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: 17H1163

Date Received: 8/21/2017

Field Sample #: WS-AOC14-SE-37 Sampled: 8/21/2017 14:05

Sample ID: 17H1163-11

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	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1248 [1]	0.18	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1254 [2]	0.21	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1260 [2]	0.28	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/24/17	9/2/17 15:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		9/2/17 15:48
Decachlorobiphenyl [2]	70.7	30-150		9/2/17 15:48
Tetrachloro-m-xylene [1]	85.7	30-150		9/2/17 15:48
Tetrachloro-m-xylene [2]	82.0	30-150		9/2/17 15:48

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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
17H1163-01 [WS-AOC14-CO-29]	B184889	2.00	10.0	08/24/17
17H1163-02 [WS-AOC14-CO-30]	B184889	2.00	10.0	08/24/17
17H1163-03 [WS-AOC14-CO-32]	B184889	2.00	10.0	08/24/17
17H1163-04 [WS-AOC14-CO-33]	B184889	2.00	10.0	08/24/17
17H1163-05 [WS-AOC14-CO-34]	B184889	2.00	10.0	08/24/17
17H1163-06 [WS-AOC14-CO-36]	B184889	2.00	10.0	08/24/17
17H1163-07 [WS-AOC14-CO-37]	B184889	2.00	10.0	08/24/17
17H1163-08 [WS-AOC14-SE-34]	B184889	2.00	10.0	08/24/17
17H1163-09 [WS-AOC14-SE-35]	B184889	2.00	10.0	08/24/17
17H1163-10 [WS-AOC14-SE-36]	B184889	2.00	10.0	08/24/17
17H1163-11 [WS-AOC14-SE-37]	B184889	2.00	10.0	08/24/17

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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 B184889 - SW-846 3540C												
Blank (B184889-BLK1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	ND	0.10	mg/Kg									R-05
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	*0.868*		mg/Kg	1.00		86.8		30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.962*		mg/Kg	1.00		96.2		30-150				
Surrogate: Tetrachloro-m-xylene	*0.850*		mg/Kg	1.00		85.0		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.01*		mg/Kg	1.00		101		30-150				
LCS (B184889-BS1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	0.93	0.10	mg/Kg	1.00		93.4		40-140				R-05
Aroclor-1016 [2C]	1.1	0.10	mg/Kg	1.00		110		40-140				
Aroclor-1260	0.85	0.10	mg/Kg	1.00		84.9		40-140				
Aroclor-1260 [2C]	0.95	0.10	mg/Kg	1.00		94.7		40-140				
Surrogate: Decachlorobiphenyl	*0.961*		mg/Kg	1.00		96.1		30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.06*		mg/Kg	1.00		106		30-150				
Surrogate: Tetrachloro-m-xylene	*0.948*		mg/Kg	1.00		94.8		30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.12*		mg/Kg	1.00		112		30-150				
LCS Dup (B184889-BSD1)				Prepared: 08/24/17 Analyzed: 08/31/17								
Aroclor-1016	0.65	0.10	mg/Kg	1.00		65.4		40-140	**35.2**	*	30	R-05
Aroclor-1016 [2C]	0.83	0.10	mg/Kg	1.00		82.6		40-140	28.6		30	
Aroclor-1260	0.80	0.10	mg/Kg	1.00		79.6		40-140	6.40		30	
Aroclor-1260 [2C]	0.89	0.10	mg/Kg	1.00		89.3		40-140	5.88		30	
Surrogate: Decachlorobiphenyl	*0.909*		mg/Kg	1.00		90.9		30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.01*		mg/Kg	1.00		101		30-150				
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg	1.00		**15.0**	*	30-150				S-23
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg	1.00		**18.4**	*	30-150				S-23

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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 B184889 - SW-846 3540C										
Matrix Spike (B184889-MS1)		**Source: 17H1163-01**		Prepared: 08/24/17 Analyzed: 08/31/17						
Aroclor-1016	0.86	0.10	mg/Kg	1.00	ND	86.5	40-140			R-05
Aroclor-1016 [2C]	0.82	0.10	mg/Kg	1.00	ND	82.1	40-140			
Aroclor-1260	0.68	0.10	mg/Kg	1.00	ND	68.1	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00	ND	78.0	40-140			
Surrogate: Decachlorobiphenyl	*0.763*		mg/Kg	1.00		76.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.859*		mg/Kg	1.00		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.819*		mg/Kg	1.00		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.980*		mg/Kg	1.00		98.0	30-150			
Matrix Spike Dup (B184889-MSD1)		**Source: 17H1163-01**		Prepared: 08/24/17 Analyzed: 08/31/17						
Aroclor-1016	0.89	0.10	mg/Kg	1.00	ND	89.5	40-140	3.45	50	R-05
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00	ND	89.4	40-140	8.43	50	
Aroclor-1260	0.78	0.10	mg/Kg	1.00	ND	78.1	40-140	13.7	50	
Aroclor-1260 [2C]	0.86	0.10	mg/Kg	1.00	ND	86.4	40-140	10.2	50	
Surrogate: Decachlorobiphenyl	*0.869*		mg/Kg	1.00		86.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.977*		mg/Kg	1.00		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.869*		mg/Kg	1.00		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.03*		mg/Kg	1.00		103	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-34

Lab Sample ID: 17H1163-08

Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.25	
	2	0.000	0.000	0.000	0.23	8.3
Aroclor-1254	1	0.000	0.000	0.000	0.23	
	2	0.000	0.000	0.000	0.26	12.2
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.20	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-35

Lab Sample ID: 17H1163-09 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.16	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.20	16.2
Aroclor-1260	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.22	20.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-36

Lab Sample ID: 17H1163-10 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.10	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.15	30.8
Aroclor-1260	1	0.000	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.15	14.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-37

Lab Sample ID: 17H1163-11 Date(s) Analyzed: 09/02/2017 09/02/2017

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-1248	1	0.000	0.000	0.000	0.18	
	2	0.000	0.000	0.000	0.15	18.2
Aroclor-1254	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.21	33.3
Aroclor-1260	1	0.000	0.000	0.000	0.21	
	2	0.000	0.000	0.000	0.28	28.6

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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.
S-23	Surrogate recovery outside of control limits in BS/MS spiked sample, all reported analytes are within control criteria, data not significantly affected.

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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

17H1163

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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 via Soxhlet											
1	WS-AOC14-CO-29	8/21/17	1300		X	O	U	X											
2	WS-AOC14-CO-30		1310					X											
3	WS-AOC14-CO-32		1320					X											
4	WS-AOC14-CO-33		1330					X											
5	WS-AOC14-CO-34		1340					X											
6	WS-AOC14-CO-36		1350					X											
7	WS-AOC14-CO-37		1400					X											
8	WS-AOC14-SE-34		1345			Soil		X											
9	WS-AOC14-SE-35		1347			Soil		X											
10	WS-AOC14-SE-36		1350			Soil		X											

								I											# of Containers
								H											[2] Preservation Code
								A											[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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
SL = Sludge
SOL = Solid
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) Concrete

[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)	8/21/17	Date/Time: 1500
Received by: (signature)	8/21/17	Date/Time: 1500
Relinquished by: (signature)	8/21/17	Date/Time: 4:40
Received by: (signature)	8/21/17	Date/Time: 1646
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of ____

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.com
Fax To #:

ANALYSIS REQUESTED

PCBs via Soxhlet

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code
11	WS-AOC14-SE-37	8/21/17	1405		Y	SOL	U

# 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
SL = Sludge
SOL = Solid
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)	8/21/17	Date/Time: 1500
Received by: (signature)	8/21/17	Date/Time: 1500
Relinquished by: (signature)	8/21/17	Date/Time: 4:40
Received by: (signature)	8/21/17	Date/Time: 1640
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☐ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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www.contestlabs.com
NELAC and AIHA-LAP, LLC Accredited

Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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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 JM Date 8/21/17 Time 1640

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 - 4.3

Were samples within Temperature? 2-6°C T 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? 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	34
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	7
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: 17H1163

Laboratory Sample ID(s):

17H1163-01 thru 17H1163-11

Sample Date(s):

08/21/2017

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:** **09/05/17**

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 5, 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: 17H1209

Enclosed are results of analyses for samples received by the laboratory on August 22, 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: 9/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1209

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-AOC14-CO-38	17H1209-01	Product/Solid		SW-846 8082A	
WS-AOC14-CO-39	17H1209-02	Product/Solid		SW-846 8082A	
WS-AOC14-CO-40	17H1209-03	Product/Solid		SW-846 8082A	
WS-AOC14-CO-41	17H1209-04	Product/Solid		SW-846 8082A	
WS-AOC14-SE-38	17H1209-05	Product/Solid		SW-846 8082A	
WS-AOC14-SE-39	17H1209-06	Product/Solid		SW-846 8082A	
WS-AOC14-SE-40	17H1209-07	Product/Solid		SW-846 8082A	
WS-AOC14-SE-41	17H1209-08	Product/Solid		SW-846 8082A	
WS-AOC14-SE-42	17H1209-09	Product/Solid		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 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H1209-01[WS-AOC14-CO-38], 17H1209-02[WS-AOC14-CO-39], 17H1209-03[WS-AOC14-CO-40], 17H1209-06[WS-AOC14-SE-39], 17H1209-07[WS-AOC14-SE-40], 17H1209-08[WS-AOC14-SE-41]

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: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-38 Sampled: 8/22/2017 09:30

Sample ID: 17H1209-01

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/1/17 11:29
Decachlorobiphenyl [2]	96.6	30-150		9/1/17 11:29
Tetrachloro-m-xylene [1]	99.7	30-150		9/1/17 11:29
Tetrachloro-m-xylene [2]	91.0	30-150		9/1/17 11:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-39 Sampled: 8/22/2017 09:40

Sample ID: 17H1209-02

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.6	30-150		9/1/17 11:41
Decachlorobiphenyl [2]	85.5	30-150		9/1/17 11:41
Tetrachloro-m-xylene [1]	97.9	30-150		9/1/17 11:41
Tetrachloro-m-xylene [2]	95.0	30-150		9/1/17 11:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-40 Sampled: 8/22/2017 09:50

Sample ID: 17H1209-03

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 11:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.3	30-150		9/1/17 11:53
Decachlorobiphenyl [2]	81.8	30-150		9/1/17 11:53
Tetrachloro-m-xylene [1]	88.8	30-150		9/1/17 11:53
Tetrachloro-m-xylene [2]	91.5	30-150		9/1/17 11:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-CO-41 Sampled: 8/22/2017 10:00

Sample ID: 17H1209-04

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 5:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.1	30-150		9/1/17 5:49
Decachlorobiphenyl [2]	78.2	30-150		9/1/17 5:49
Tetrachloro-m-xylene [1]	106	30-150		9/1/17 5:49
Tetrachloro-m-xylene [2]	72.9	30-150		9/1/17 5:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-38 Sampled: 8/22/2017 09:35

Sample ID: 17H1209-05

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1248 [1]	0.10	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1254 [2]	0.13	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1260 [2]	0.17	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 6:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.9	30-150		9/1/17 6:07
Decachlorobiphenyl [2]	83.6	30-150		9/1/17 6:07
Tetrachloro-m-xylene [1]	104	30-150		9/1/17 6:07
Tetrachloro-m-xylene [2]	71.2	30-150		9/1/17 6:07

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: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-39 Sampled: 8/22/2017 09:45

Sample ID: 17H1209-06

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		9/1/17 12:06
Decachlorobiphenyl [2]	87.2	30-150		9/1/17 12:06
Tetrachloro-m-xylene [1]	93.4	30-150		9/1/17 12:06
Tetrachloro-m-xylene [2]	90.8	30-150		9/1/17 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: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-40 Sampled: 8/22/2017 09:55

Sample ID: 17H1209-07

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		9/1/17 12:18
Decachlorobiphenyl [2]	91.4	30-150		9/1/17 12:18
Tetrachloro-m-xylene [1]	94.7	30-150		9/1/17 12:18
Tetrachloro-m-xylene [2]	95.2	30-150		9/1/17 12:18

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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: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-41 Sampled: 8/22/2017 10:05

Sample ID: 17H1209-08

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1221 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1232 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1242 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1248 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1254 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1260 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1262 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL
Aroclor-1268 [1]	ND	0.50	mg/Kg	5		SW-846 8082A	8/25/17	9/1/17 12:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.8	30-150		9/1/17 12:31
Decachlorobiphenyl [2]	83.5	30-150		9/1/17 12:31
Tetrachloro-m-xylene [1]	92.7	30-150		9/1/17 12:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/1/17 12:31

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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: 17H1209

Date Received: 8/22/2017

Field Sample #: WS-AOC14-SE-42 Sampled: 8/22/2017 10:10

Sample ID: 17H1209-09

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	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1248 [2]	0.10	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1254 [1]	0.17	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1260 [1]	0.32	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg	1		SW-846 8082A	8/25/17	9/1/17 7:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.5	30-150		9/1/17 7:17
Decachlorobiphenyl [2]	83.9	30-150		9/1/17 7:17
Tetrachloro-m-xylene [1]	103	30-150		9/1/17 7:17
Tetrachloro-m-xylene [2]	70.3	30-150		9/1/17 7:17

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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
17H1209-01 [WS-AOC14-CO-38]	B184964	2.00	10.0	08/25/17
17H1209-02 [WS-AOC14-CO-39]	B184964	2.00	10.0	08/25/17
17H1209-03 [WS-AOC14-CO-40]	B184964	2.00	10.0	08/25/17
17H1209-04 [WS-AOC14-CO-41]	B184964	2.00	10.0	08/25/17
17H1209-05 [WS-AOC14-SE-38]	B184964	2.00	10.0	08/25/17
17H1209-06 [WS-AOC14-SE-39]	B184964	2.00	10.0	08/25/17
17H1209-07 [WS-AOC14-SE-40]	B184964	2.00	10.0	08/25/17
17H1209-08 [WS-AOC14-SE-41]	B184964	2.00	10.0	08/25/17
17H1209-09 [WS-AOC14-SE-42]	B184964	2.00	10.0	08/25/17

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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 B184964 - SW-846 3540C										
Blank (B184964-BLK1)				Prepared: 08/25/17 Analyzed: 09/01/17						
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	*0.860*		mg/Kg	1.00		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.746*		mg/Kg	1.00		74.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.710*		mg/Kg	1.00		71.0	30-150			
LCS (B184964-BS1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.88	0.10	mg/Kg	1.00		88.3	40-140			
Aroclor-1016 [2C]	0.78	0.10	mg/Kg	1.00		77.7	40-140			
Aroclor-1260	0.81	0.10	mg/Kg	1.00		80.5	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		77.6	40-140			
Surrogate: Decachlorobiphenyl	*0.918*		mg/Kg	1.00		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.776*		mg/Kg	1.00		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.724*		mg/Kg	1.00		72.4	30-150			
LCS Dup (B184964-BSD1)				Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	0.72	0.10	mg/Kg	1.00		72.0	40-140	20.3	30	
Aroclor-1016 [2C]	0.63	0.10	mg/Kg	1.00		62.6	40-140	21.5	30	
Aroclor-1260	0.64	0.10	mg/Kg	1.00		64.4	40-140	22.3	30	
Aroclor-1260 [2C]	0.63	0.10	mg/Kg	1.00		62.8	40-140	21.0	30	
Surrogate: Decachlorobiphenyl	*0.702*		mg/Kg	1.00		70.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.678*		mg/Kg	1.00		67.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.835*		mg/Kg	1.00		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.679*		mg/Kg	1.00		67.9	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 B184964 - SW-846 3540C										
Matrix Spike (B184964-MS1)		**Source: 17H1209-01**		Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	1.1	1.0	mg/Kg	1.00	ND	111	40-140			
Aroclor-1016 [2C]	0.99	1.0	mg/Kg	1.00	ND	99.4	40-140			
Aroclor-1260	0.78	1.0	mg/Kg	1.00	ND	78.0	40-140			
Aroclor-1260 [2C]	0.78	1.0	mg/Kg	1.00	ND	77.6	40-140			
Surrogate: Decachlorobiphenyl	*0.688*		mg/Kg	1.00		68.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.698*		mg/Kg	1.00		69.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.895*		mg/Kg	1.00		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.05*		mg/Kg	1.00		105	30-150			
Matrix Spike Dup (B184964-MSD1)		**Source: 17H1209-01**		Prepared: 08/25/17 Analyzed: 09/01/17						
Aroclor-1016	1.2	1.0	mg/Kg	1.00	ND	122	40-140	9.45	50	
Aroclor-1016 [2C]	0.95	1.0	mg/Kg	1.00	ND	95.1	40-140	4.39	50	
Aroclor-1260	0.83	1.0	mg/Kg	1.00	ND	83.1	40-140	6.33	50	
Aroclor-1260 [2C]	0.84	1.0	mg/Kg	1.00	ND	84.1	40-140	8.04	50	
Surrogate: Decachlorobiphenyl	*0.721*		mg/Kg	1.00		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.739*		mg/Kg	1.00		73.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.973*		mg/Kg	1.00		97.3	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-38

Lab Sample ID: 17H1209-05

Date(s) Analyzed: 09/01/2017 09/01/2017

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	0.000	0.000	0.13	
	2	0.000	0.000	0.000	0.13	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-42

Lab Sample ID: 17H1209-09 Date(s) Analyzed: 09/01/2017 09/01/2017

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-1248	1	0.000	0.000	0.000	0.10	
	2	0.000	0.000	0.000	0.10	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.17	
	2	0.000	0.000	0.000	0.17	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.32	
	2	0.000	0.000	0.000	0.31	3.2

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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-03	Elevated reporting limit due to matrix.

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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

17H1209

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http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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 via Soxhlet											# of Containers / [2] Preservation Code / [3] Container Code
1	WS-AOC14-Co-38	8/22/17	930		X	O		X											
2	WS-AOC14-Co-39	↓	940		↓	↓		X											
3	WS-AOC14-Co-40		950					X											
4	WS-AOC14-Co-41		1000			✓		X											
5	WS-AOC14-SE-38		935			Soil		X											
6	WS-AOC14-SE-39		945					X											
7	WS-AOC14-SE-40		955					X											
8	WS-AOC14-SE-41		1005					X											
9	WS-AOC14-SE-42	✓	1010		✓	✓		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
SL = Sludge
SOL = Solid
O = Other (please define) Concrete

[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) ~~Lab Comp~~

[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)	8/22/17	Date/Time: 8/22/17 1500
Received by: (signature)	8/22/17	Date/Time:
Relinquished by: (signature)	8/22/17	Date/Time: 415
Received by: (signature)	8/22/17	Date/Time: 1615
Relinquished by: (signature)		Date/Time:
Received by: (signature)		Date/Time:

Detection Limit Requirements
MA
CT
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
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 JM Date 8/22/17 Time 1615

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 - 3.9
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 ___ Sampler Name ___
Project T ID's ___ Collection Dates/Times ___
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? Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	5
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	4
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: 17H1209

Laboratory Sample ID(s):

17H1209-01 thru 17H1209-09

Sample Date(s):

08/22/2017

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: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **09/05/17**

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

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

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September 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: 17H1359

Enclosed are results of analyses for samples received by the laboratory on August 24, 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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17H1359

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-12E-AS-41	17H1359-01	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-39	17H1359-02	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-37	17H1359-03	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-35	17H1359-04	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-25	17H1359-05	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-24	17H1359-06	Product/Solid		SW-846 8082A	
WS-AOC-12E-AS-21	17H1359-07	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-5	17H1359-08	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-17	17H1359-09	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-1	17H1359-10	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-2	17H1359-11	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-3	17H1359-12	Product/Solid		SW-846 8082A	
WS-AOC-6-CO-4	17H1359-13	Product/Solid		SW-846 8082A	
WS-AOC-12E-CO-DUP-18	17H1359-14	Product/Solid		SW-846 8082A	
WS-AOC-14-SE-43	17H1359-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-44	17H1359-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-45	17H1359-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-46	17H1359-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-47	17H1359-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-14-SE-48	17H1359-20	Soil		SM 2540G	
				SW-846 8082A	
EB-50	17H1359-21	Equipment Blank Water		SW-846 8082A	
EB-51	17H1359-22	Equipment Blank Water		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 8082A

Qualifications:

O-28

Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.

Analyte & Samples(s) Qualified:

17H1359-01[WS-AOC-12E-AS-41], 17H1359-02[WS-AOC-12E-AS-39], 17H1359-03[WS-AOC-12E-AS-37], 17H1359-05[WS-AOC-12E-AS-25], 17H1359-06[WS-AOC-12E-AS-24], 17H1359-07[WS-AOC-12E-AS-21]

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

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1016 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

Aroclor-1260 [2C]

17H1359-21[EB-50], 17H1359-22[EB-51], B185250-BLK1, B185250-BS1, B185250-BSD1

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:

Aroclor-1260

B185083-BLK1, B185083-BS1, B185083-BSD1

Aroclor-1260 [2C]

B185083-BLK1, B185083-BS1, B185083-BSD1

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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-41 Sampled: 8/24/2017 10:00

Sample ID: 17H1359-01

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1260 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		9/7/17 20:38
Decachlorobiphenyl [2]	88.1	30-150		9/7/17 20:38
Tetrachloro-m-xylene [1]	88.3	30-150		9/7/17 20:38
Tetrachloro-m-xylene [2]	86.1	30-150		9/7/17 20:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-39 Sampled: 8/24/2017 10:10

Sample ID: 17H1359-02

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1260 [1]	0.13	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 20:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/7/17 20:55
Decachlorobiphenyl [2]	84.6	30-150		9/7/17 20:55
Tetrachloro-m-xylene [1]	87.1	30-150		9/7/17 20:55
Tetrachloro-m-xylene [2]	83.3	30-150		9/7/17 20:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-37 Sampled: 8/24/2017 10:20

Sample ID: 17H1359-03

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1260 [1]	0.098	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		9/7/17 21:13
Decachlorobiphenyl [2]	109	30-150		9/7/17 21:13
Tetrachloro-m-xylene [1]	111	30-150		9/7/17 21:13
Tetrachloro-m-xylene [2]	105	30-150		9/7/17 21:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-35 Sampled: 8/24/2017 10:30

Sample ID: 17H1359-04

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	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1260 [2]	0.14	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL
Aroclor-1268 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/30/17	9/5/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		9/5/17 19:47
Decachlorobiphenyl [2]	93.8	30-150		9/5/17 19:47
Tetrachloro-m-xylene [1]	76.3	30-150		9/5/17 19:47
Tetrachloro-m-xylene [2]	91.4	30-150		9/5/17 19:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-25 Sampled: 8/24/2017 10:40

Sample ID: 17H1359-05

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1260 [1]	0.10	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL
Aroclor-1268 [2]	0.087	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 21:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		9/7/17 21:48
Decachlorobiphenyl [2]	85.8	30-150		9/7/17 21:48
Tetrachloro-m-xylene [1]	103	30-150		9/7/17 21:48
Tetrachloro-m-xylene [2]	99.7	30-150		9/7/17 21:48

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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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-24 Sampled: 8/24/2017 10:50

Sample ID: 17H1359-06

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1221 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1232 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1242 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1248 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1254 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1260 [1]	0.14	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1262 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL
Aroclor-1268 [1]	ND	0.078	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		9/7/17 22:05
Decachlorobiphenyl [2]	74.2	30-150		9/7/17 22:05
Tetrachloro-m-xylene [1]	94.3	30-150		9/7/17 22:05
Tetrachloro-m-xylene [2]	87.9	30-150		9/7/17 22:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-AS-21 Sampled: 8/24/2017 11:00

Sample ID: 17H1359-07

Sample Matrix: Product/Solid

Sample Flags: O-28

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1221 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1232 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1242 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1248 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1254 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1260 [1]	0.16	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1262 [1]	ND	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL
Aroclor-1268 [2]	0.20	0.080	mg/Kg wet	4		SW-846 8082A	8/29/17	9/7/17 22:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.4	30-150		9/7/17 22:23
Decachlorobiphenyl [2]	73.8	30-150		9/7/17 22:23
Tetrachloro-m-xylene [1]	92.0	30-150		9/7/17 22:23
Tetrachloro-m-xylene [2]	87.7	30-150		9/7/17 22:23

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-5 Sampled: 8/24/2017 11:10

Sample ID: 17H1359-08

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	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1221 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1232 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1242 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1248 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1254 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1260 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1262 [1]	ND	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB
Aroclor-1268 [2]	0.47	0.074	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	118	30-150		9/5/17 16:20
Decachlorobiphenyl [2]	99.6	30-150		9/5/17 16:20
Tetrachloro-m-xylene [1]	112	30-150		9/5/17 16:20
Tetrachloro-m-xylene [2]	75.4	30-150		9/5/17 16:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-17 Sampled: 8/24/2017 11:20

Sample ID: 17H1359-09

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	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		9/5/17 16:37
Decachlorobiphenyl [2]	82.4	30-150		9/5/17 16:37
Tetrachloro-m-xylene [1]	99.7	30-150		9/5/17 16:37
Tetrachloro-m-xylene [2]	72.5	30-150		9/5/17 16:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-1 Sampled: 8/24/2017 11:30

Sample ID: 17H1359-10

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	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 16:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.8	30-150		9/5/17 16:55
Decachlorobiphenyl [2]	84.2	30-150		9/5/17 16:55
Tetrachloro-m-xylene [1]	95.7	30-150		9/5/17 16:55
Tetrachloro-m-xylene [2]	71.4	30-150		9/5/17 16:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-2 Sampled: 8/24/2017 11:40

Sample ID: 17H1359-11

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	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.8	30-150		9/5/17 17:12
Decachlorobiphenyl [2]	72.6	30-150		9/5/17 17:12
Tetrachloro-m-xylene [1]	73.0	30-150		9/5/17 17:12
Tetrachloro-m-xylene [2]	64.5	30-150		9/5/17 17:12

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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: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-3 Sampled: 8/24/2017 11:50

Sample ID: 17H1359-12

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	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1221 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1232 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1242 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1248 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1254 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1260 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1262 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB
Aroclor-1268 [1]	ND	0.078	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.9	30-150		9/5/17 17:30
Decachlorobiphenyl [2]	68.7	30-150		9/5/17 17:30
Tetrachloro-m-xylene [1]	68.0	30-150		9/5/17 17:30
Tetrachloro-m-xylene [2]	63.5	30-150		9/5/17 17:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-6-CO-4 Sampled: 8/24/2017 12:00

Sample ID: 17H1359-13

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	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1221 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1232 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1242 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1248 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1254 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1260 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1262 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB
Aroclor-1268 [1]	ND	0.072	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 17:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/5/17 17:47
Decachlorobiphenyl [2]	77.0	30-150		9/5/17 17:47
Tetrachloro-m-xylene [1]	83.1	30-150		9/5/17 17:47
Tetrachloro-m-xylene [2]	69.5	30-150		9/5/17 17:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-12E-CO-DUP-18 Sampled: 8/24/2017 00:00

Sample ID: 17H1359-14

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	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB
Aroclor-1268 [2]	0.40	0.082	mg/Kg	1		SW-846 8082A	8/29/17	9/5/17 18:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		9/5/17 18:05
Decachlorobiphenyl [2]	84.6	30-150		9/5/17 18:05
Tetrachloro-m-xylene [1]	93.8	30-150		9/5/17 18:05
Tetrachloro-m-xylene [2]	67.0	30-150		9/5/17 18:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43 Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1221 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1232 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1242 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1248 [1]	0.36	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1254 [2]	0.37	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1260 [2]	0.31	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1262 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG
Aroclor-1268 [1]	ND	0.29	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 7:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		9/9/17 7:46
Decachlorobiphenyl [2]	100	30-150		9/9/17 7:46
Tetrachloro-m-xylene [1]	92.7	30-150		9/9/17 7:46
Tetrachloro-m-xylene [2]	96.1	30-150		9/9/17 7:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-43 Sampled: 8/24/2017 13:00

Sample ID: 17H1359-15

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	27.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44 Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1248 [1]	0.55	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1254 [2]	0.72	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1260 [2]	0.40	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:04	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		9/9/17 8:04
Decachlorobiphenyl [2]	110	30-150		9/9/17 8:04
Tetrachloro-m-xylene [1]	100	30-150		9/9/17 8:04
Tetrachloro-m-xylene [2]	104	30-150		9/9/17 8:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-44 Sampled: 8/24/2017 13:10

Sample ID: 17H1359-16

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	43.9		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45 Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1221 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1232 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1242 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1248 [1]	4.6	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1254 [2]	4.0	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1260 [2]	1.3	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1262 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG
Aroclor-1268 [1]	ND	1.3	mg/Kg dry	20		SW-846 8082A	8/29/17	9/9/17 8:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		9/9/17 8:22
Decachlorobiphenyl [2]	104	30-150		9/9/17 8:22
Tetrachloro-m-xylene [1]	111	30-150		9/9/17 8:22
Tetrachloro-m-xylene [2]	98.7	30-150		9/9/17 8:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-45 Sampled: 8/24/2017 13:20

Sample ID: 17H1359-17

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	31.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46 Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1248 [2]	0.81	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1254 [2]	0.90	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1260 [2]	0.45	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:40	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		9/9/17 8:40
Decachlorobiphenyl [2]	109	30-150		9/9/17 8:40
Tetrachloro-m-xylene [1]	86.4	30-150		9/9/17 8:40
Tetrachloro-m-xylene [2]	98.4	30-150		9/9/17 8:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-46 Sampled: 8/24/2017 13:30

Sample ID: 17H1359-18

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	41.6		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47 Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1221 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1232 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1242 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1248 [2]	0.97	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1254 [2]	1.0	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1260 [2]	0.55	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1262 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG
Aroclor-1268 [1]	ND	0.20	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 8:58	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/9/17 8:58
Decachlorobiphenyl [2]	101	30-150		9/9/17 8:58
Tetrachloro-m-xylene [1]	93.0	30-150		9/9/17 8:58
Tetrachloro-m-xylene [2]	95.9	30-150		9/9/17 8:58

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-47 Sampled: 8/24/2017 13:40

Sample ID: 17H1359-19

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	38.7		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48 Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1221 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1232 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1242 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1248 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1254 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1260 [2]	0.30	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1262 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG
Aroclor-1268 [1]	ND	0.21	mg/Kg dry	4		SW-846 8082A	8/29/17	9/9/17 9:16	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.9	30-150		9/9/17 9:16
Decachlorobiphenyl [2]	95.8	30-150		9/9/17 9:16
Tetrachloro-m-xylene [1]	80.2	30-150		9/9/17 9:16
Tetrachloro-m-xylene [2]	87.6	30-150		9/9/17 9:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: WS-AOC-14-SE-48 Sampled: 8/24/2017 13:50

Sample ID: 17H1359-20

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	37.5		% Wt	1		SM 2540G	8/30/17	8/31/17 8:44	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-50 Sampled: 8/24/2017 08:00

Sample ID: 17H1359-21

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	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.0	30-150		9/1/17 14:19
Decachlorobiphenyl [2]	54.0	30-150		9/1/17 14:19
Tetrachloro-m-xylene [1]	70.7	30-150		9/1/17 14:19
Tetrachloro-m-xylene [2]	70.8	30-150		9/1/17 14:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1359

Date Received: 8/24/2017

Field Sample #: EB-51 Sampled: 8/24/2017 10:00

Sample ID: 17H1359-22

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	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	R-05	SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	8/30/17	9/1/17 14:32	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/1/17 14:32
Decachlorobiphenyl [2]	61.9	30-150		9/1/17 14:32
Tetrachloro-m-xylene [1]	95.0	30-150		9/1/17 14:32
Tetrachloro-m-xylene [2]	90.2	30-150		9/1/17 14:32

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Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1359-15 [WS-AOC-14-SE-43]	B185198	08/30/17
17H1359-16 [WS-AOC-14-SE-44]	B185198	08/30/17
17H1359-17 [WS-AOC-14-SE-45]	B185198	08/30/17
17H1359-18 [WS-AOC-14-SE-46]	B185198	08/30/17
17H1359-19 [WS-AOC-14-SE-47]	B185198	08/30/17
17H1359-20 [WS-AOC-14-SE-48]	B185198	08/30/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-08 [WS-AOC-12E-CO-5]	B185080	2.69	10.0	08/29/17
17H1359-09 [WS-AOC-12E-CO-17]	B185080	2.30	10.0	08/29/17
17H1359-10 [WS-AOC-6-CO-1]	B185080	2.39	10.0	08/29/17
17H1359-11 [WS-AOC-6-CO-2]	B185080	2.06	10.0	08/29/17
17H1359-12 [WS-AOC-6-CO-3]	B185080	2.56	10.0	08/29/17
17H1359-13 [WS-AOC-6-CO-4]	B185080	2.77	10.0	08/29/17
17H1359-14 [WS-AOC-12E-CO-DUP-18]	B185080	2.45	10.0	08/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-01 [WS-AOC-12E-AS-41]	B185083	10.0	10.0	08/29/17
17H1359-02 [WS-AOC-12E-AS-39]	B185083	10.0	10.0	08/29/17
17H1359-03 [WS-AOC-12E-AS-37]	B185083	10.2	10.0	08/29/17
17H1359-05 [WS-AOC-12E-AS-25]	B185083	10.0	10.0	08/29/17
17H1359-06 [WS-AOC-12E-AS-24]	B185083	10.2	10.0	08/29/17
17H1359-07 [WS-AOC-12E-AS-21]	B185083	10.0	10.0	08/29/17
17H1359-15 [WS-AOC-14-SE-43]	B185083	10.1	10.0	08/29/17
17H1359-16 [WS-AOC-14-SE-44]	B185083	10.0	10.0	08/29/17
17H1359-17 [WS-AOC-14-SE-45]	B185083	10.0	10.0	08/29/17
17H1359-18 [WS-AOC-14-SE-46]	B185083	10.0	10.0	08/29/17
17H1359-19 [WS-AOC-14-SE-47]	B185083	10.1	10.0	08/29/17
17H1359-20 [WS-AOC-14-SE-48]	B185083	10.1	10.0	08/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1359-04RE1 [WS-AOC-12E-AS-35]	B185232	10.0	10.0	08/30/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1359-21 [EB-50]	B185250	1000	10.0	08/30/17
17H1359-22 [EB-51]	B185250	1000	10.0	08/30/17

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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 B185250 - SW-846 3510C											
Blank (B185250-BLK1)				Prepared: 08/30/17 Analyzed: 09/01/17							
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	*2.03*		µg/L	2.00		101	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.0	30-150				
Surrogate: Tetrachloro-m-xylene	*1.66*		µg/L	2.00		83.2	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.61*		µg/L	2.00		80.4	30-150				
LCS (B185250-BS1)				Prepared: 08/30/17 Analyzed: 09/01/17							
Aroclor-1016	0.46	0.20	µg/L	0.500		92.6	40-140				R-05
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.6	40-140				R-05
Aroclor-1260	0.45	0.20	µg/L	0.500		90.2	40-140				R-05
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.3	40-140				R-05
Surrogate: Decachlorobiphenyl	*2.12*		µg/L	2.00		106	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.84*		µg/L	2.00		91.8	30-150				
Surrogate: Tetrachloro-m-xylene	*1.71*		µg/L	2.00		85.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.7	30-150				
LCS Dup (B185250-BSD1)				Prepared: 08/30/17 Analyzed: 09/01/17							
Aroclor-1016	0.36	0.20	µg/L	0.500		71.7	40-140	**25.5**	*	20	R-05
Aroclor-1016 [2C]	0.38	0.20	µg/L	0.500		76.3	40-140	**23.5**	*	20	R-05
Aroclor-1260	0.34	0.20	µg/L	0.500		68.6	40-140	**27.2**	*	20	R-05
Aroclor-1260 [2C]	0.34	0.20	µg/L	0.500		67.3	40-140	**24.8**	*	20	R-05
Surrogate: Decachlorobiphenyl	*1.50*		µg/L	2.00		74.9	30-150				
Surrogate: Decachlorobiphenyl [2C]	*1.32*		µg/L	2.00		66.0	30-150				
Surrogate: Tetrachloro-m-xylene	*1.31*		µg/L	2.00		65.5	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*1.30*		µg/L	2.00		65.1	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 B185080 - SW-846 3540C										
Blank (B185080-BLK1)				Prepared: 08/29/17 Analyzed: 09/05/17						
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	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.957*		mg/Kg	1.00		95.7	30-150			
Surrogate: Tetrachloro-m-xylene	*1.06*		mg/Kg	1.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.807*		mg/Kg	1.00		80.7	30-150			
LCS (B185080-BS1)				Prepared: 08/29/17 Analyzed: 09/05/17						
Aroclor-1016	0.84	0.10	mg/Kg	1.00		83.8	40-140			
Aroclor-1016 [2C]	0.80	0.10	mg/Kg	1.00		79.7	40-140			
Aroclor-1260	0.77	0.10	mg/Kg	1.00		77.0	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		78.3	40-140			
Surrogate: Decachlorobiphenyl	*0.872*		mg/Kg	1.00		87.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.818*		mg/Kg	1.00		81.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.880*		mg/Kg	1.00		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.697*		mg/Kg	1.00		69.7	30-150			
LCS Dup (B185080-BSD1)				Prepared: 08/29/17 Analyzed: 09/05/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		90.6	40-140	7.81	30	
Aroclor-1016 [2C]	0.86	0.10	mg/Kg	1.00		86.1	40-140	7.71	30	
Aroclor-1260	0.85	0.10	mg/Kg	1.00		85.4	40-140	10.3	30	
Aroclor-1260 [2C]	0.87	0.10	mg/Kg	1.00		87.3	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	*0.990*		mg/Kg	1.00		99.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.932*		mg/Kg	1.00		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.972*		mg/Kg	1.00		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.710*		mg/Kg	1.00		71.0	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 B185080 - SW-846 3540C										
Matrix Spike (B185080-MS1)		**Source: 17H1359-12**		Prepared: 08/29/17 Analyzed: 09/05/17						
Aroclor-1016	0.79	0.091	mg/Kg	0.909	ND	86.9	40-140			
Aroclor-1016 [2C]	0.66	0.091	mg/Kg	0.909	ND	72.8	40-140			
Aroclor-1260	0.61	0.091	mg/Kg	0.909	ND	67.5	40-140			
Aroclor-1260 [2C]	0.58	0.091	mg/Kg	0.909	ND	63.8	40-140			
Surrogate: Decachlorobiphenyl	*0.802*		mg/Kg	0.909		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.868*		mg/Kg	0.909		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.843*		mg/Kg	0.909		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.663*		mg/Kg	0.909		72.9	30-150			
Matrix Spike Dup (B185080-MSD1)		**Source: 17H1359-12**		Prepared: 08/29/17 Analyzed: 09/05/17						
Aroclor-1016	0.76	0.089	mg/Kg	0.889	ND	85.1	40-140	4.37	50	
Aroclor-1016 [2C]	0.68	0.089	mg/Kg	0.889	ND	76.3	40-140	2.36	50	
Aroclor-1260	0.64	0.089	mg/Kg	0.889	ND	71.4	40-140	3.44	50	
Aroclor-1260 [2C]	0.62	0.089	mg/Kg	0.889	ND	70.3	40-140	7.49	50	
Surrogate: Decachlorobiphenyl	*0.765*		mg/Kg	0.889		86.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.712*		mg/Kg	0.889		80.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.838*		mg/Kg	0.889		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.628*		mg/Kg	0.889		70.6	30-150			
Batch B185083 - SW-846 3540C										
Blank (B185083-BLK1)				Prepared: 08/29/17 Analyzed: 09/07/17						
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							V-05
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							V-05
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	*0.133*		mg/Kg wet	0.200		66.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.142*		mg/Kg wet	0.200		70.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.147*		mg/Kg wet	0.200		73.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg wet	0.200		73.3	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 B185083 - SW-846 3540C										
LCS (B185083-BS1)				Prepared: 08/29/17 Analyzed: 09/07/17						
Aroclor-1016	0.13	0.020	mg/Kg wet	0.200		66.8	40-140			
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		69.6	40-140			
Aroclor-1260	0.12	0.020	mg/Kg wet	0.200		58.1	40-140			V-05
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.4	40-140			V-05
Surrogate: Decachlorobiphenyl	*0.125*		mg/Kg wet	0.200		62.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg wet	0.200		68.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.136*		mg/Kg wet	0.200		68.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.7	30-150			
LCS Dup (B185083-BSD1)				Prepared: 08/29/17 Analyzed: 09/07/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140	16.2	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.1	40-140	18.9	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.3	40-140	23.1	30	V-05
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.5	40-140	20.3	30	V-05
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg wet	0.200		79.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.113*		mg/Kg wet	0.200		56.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.154*		mg/Kg wet	0.200		77.0	30-150			
Batch B185232 - SW-846 3540C										
Blank (B185232-BLK1)				Prepared: 08/30/17 Analyzed: 09/05/17						
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	*0.199*		mg/Kg wet	0.200		99.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		100	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 B185232 - SW-846 3540C										
LCS (B185232-BS1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.3	40-140			
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		111	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Surrogate: Decachlorobiphenyl	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.211*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.211*		mg/Kg wet	0.200		105	30-150			
LCS Dup (B185232-BSD1)				Prepared: 08/30/17 Analyzed: 09/05/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.7	40-140	2.75	30	
Aroclor-1016 [2C]	0.22	0.020	mg/Kg wet	0.200		108	40-140	2.73	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		92.0	40-140	0.372	30	
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-39

Lab Sample ID: 17H1359-02

Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

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-AOC-12E-AS-35

Lab Sample ID: 17H1359-04RE1

Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

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	0.11	
	2	0.000	-0.030	0.030	0.14	24.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-25

Lab Sample ID: 17H1359-05 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.10	
	2	0.000	-0.030	0.030	0.091	9.4
Aroclor-1268	1	0.000	-0.030	0.030	0.085	
	2	0.000	-0.030	0.030	0.087	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-24

Lab Sample ID: 17H1359-06

Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

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	0.12	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-AS-21

Lab Sample ID: 17H1359-07 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.14	13.3
Aroclor-1268	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.20	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-CO-5

Lab Sample ID: 17H1359-08

Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.46	
	2	0.000	0.000	0.000	0.47	2.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12E-CO-DUP-18

Lab Sample ID: 17H1359-14 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1268	1	0.000	0.000	0.000	0.39	
	2	0.000	0.000	0.000	0.40	2.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-43

Lab Sample ID: 17H1359-15 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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	0.32	
	2	0.000	-0.030	0.030	0.37	14.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-44

Lab Sample ID: 17H1359-16 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.55	
	2	0.000	-0.030	0.030	0.51	7.6
Aroclor-1254	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.72	16.5
Aroclor-1260	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.40	22.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-45

Lab Sample ID: 17H1359-17 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	4.6	
	2	0.000	-0.030	0.030	4.3	6.7
Aroclor-1254	1	0.000	-0.030	0.030	3.6	
	2	0.000	-0.030	0.030	4.0	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-46

Lab Sample ID: 17H1359-18 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.80	
	2	0.000	-0.030	0.030	0.81	1.2
Aroclor-1254	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.90	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.45	25.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-47

Lab Sample ID: 17H1359-19 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.96	
	2	0.000	-0.030	0.030	0.97	1.0
Aroclor-1254	1	0.000	-0.030	0.030	0.78	
	2	0.000	-0.030	0.030	1.0	24.7
Aroclor-1260	1	0.000	-0.030	0.030	0.50	
	2	0.000	-0.030	0.030	0.55	9.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-14-SE-48

Lab Sample ID: 17H1359-20 Date(s) Analyzed 09/09/2017 09/09/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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	0.30	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185080-BS1

Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

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	0.84	
	2	0.000	0.000	0.000	0.80	4.9
Aroclor-1260	1	0.000	0.000	0.000	0.77	
	2	0.000	0.000	0.000	0.78	1.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185080-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.91	
	2	0.000	0.000	0.000	0.86	5.7
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.87	2.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B185080-MS1

Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

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	0.79	
	2	0.000	0.000	0.000	0.66	17.9
Aroclor-1260	1	0.000	0.000	0.000	0.61	
	2	0.000	0.000	0.000	0.58	5.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B185080-MSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.76	
	2	0.000	0.000	0.000	0.68	11.1
Aroclor-1260	1	0.000	0.000	0.000	0.64	
	2	0.000	0.000	0.000	0.62	3.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185083-BS1

Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

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	0.13	
	2	0.000	-0.030	0.030	0.14	7.4
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185083-BSD1 Date(s) Analyzed 09/07/2017 09/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185232-BS1

Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

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	0.22	9.5
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185232-BSD1 Date(s) Analyzed 09/05/2017 09/05/2017

Instrument ID (1): ECD5 Instrument ID (2): ECD5

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	0.22	14.6
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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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185250-BS1

Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD1

Instrument ID (2): ECD1

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	0.46	
	2	0.000	0.000	0.000	0.48	4.3
Aroclor-1260	1	0.000	0.000	0.000	0.45	
	2	0.000	0.000	0.000	0.43	4.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185250-BSD1 Date(s) Analyzed 09/01/2017 09/01/2017

Instrument ID (1): ECD1 Instrument ID (2): ECD1

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	0.36	
	2	0.000	0.000	0.000	0.38	5.4
Aroclor-1260	1	0.000	0.000	0.000	0.34	
	2	0.000	0.000	0.000	0.34	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.

O-28	Initial continuing calibration standard was within method criteria. Closing continuing calibration standard was outside of method criteria, biased on the low side. Reanalysis yielded similar non-conformance, matrix interference was confirmed.
R-05	Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.
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.

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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
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 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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
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

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

17H1359

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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

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 Borthiaume~~/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)										# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC-12E-AS-41	8/24/17	1000		X	O	U	X										1	I	A
2	WS-AOC-12E-AS-39		1010																	
3	WS-AOC-12E-AS-37		1020																	
4	WS-AOC-12E-AS-35		1030																	
5	WS-AOC-12E-AS-25		1040																	
6	WS-AOC-12E-AS-24		1050																	
7	WS-AOC-12E-AS-21		1100																	
8	WS-AOC-12E-CO-5		1110																	
9	WS-AOC-12E-CO-17		1120																	
10	WS-AOC-6-CO-1		1130																	

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) porous media

[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]	8/24/17 1500
Received by: (signature)	Date/Time:
[signature]	8/24/17 1500
Relinquished by: (signature)	Date/Time:
[signature]	8/24/17 1515
Received by: (signature)	Date/Time:
[signature]	8-24-17 3:46
Relinquished by: (signature)	Date/Time:
[signature]	8-24-17 6:35
Received by: (signature)	Date/Time:
[signature]	8/24/17 1825

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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17H1359

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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)											# of Containers / [2] Preservation Code / [3] Container Code
11	WS-AOC-6-CO-2	8/24/17	1140		X	O	U	X											
12	WS-AOC-6-CO-3		1150																
13	WS-AOC-6-CO-4		1200																
14	WS-AOC-DE-CO-DUP-18		—																
15	WS-AOC-14-SE-43		1300		X	S	U												
16	WS-AOC-14-SE-44		1310																
17	WS-AOC-14-SE-45		1320																
18	WS-AOC-14-SE-46		1330																
19	WS-AOC-14-SE-47		1340																
20	WS-AOC-14-SE-48		1350																

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
SL = Sludge
SOL = Solid
O = Other (please define) porous media

[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: 8/24/17 1500
Received by: (signature)	Date/Time: 8/24/17 1500
Relinquished by: (signature)	Date/Time: 8/24/17 1555
Received by: (signature)	Date/Time: 8-24-17 3:46
Relinquished by: (signature)	Date/Time: 8-24-17 6:25
Received by: (signature)	Date/Time: 8/24/17 1825

Detection Limit Requirements
MA
CT RSL DEL.
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

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17H1359

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson
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 Quote Name/Number:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	William Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Due Date:

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wse.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
21	EB-50	8/24/17	0800		X	O	U	X
22	EB-51	8/24/17	1000		X	O	U	X

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

	Date/Time:
Relinquished by: (signature)	8/25/17 1500
Received by: (signature)	8/24/17 1500
Relinquished by: (signature)	8/24/17 1515
Received by: (signature)	8-24-17 3:46
Relinquished by: (signature)	8-24-17 6:25
Received by: (signature)	8/24/17 1825

Detection Limit Requirements
MA
CT CSR DEC
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

	# 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
SL = Sludge
SOL = Solid
O = Other (please define) D. I

[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)

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 8/24/17 Time 1825

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 - 5.1
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? 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? 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.	4	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	6
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	16
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: 17H1359

Laboratory Sample ID(s):

17H1359-01 thru 17H1359-22

Sample Date(s):

08/24/2017

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:** **09/12/17**

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: 17H1621

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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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: 17H1621

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-AOC14-CO-43	17H1621-01	Product/Solid		SW-846 8082A	
WS-AOC14-CO-44	17H1621-02	Product/Solid		SW-846 8082A	
WS-AOC14-CO-45	17H1621-03	Product/Solid		SW-846 8082A	
WS-AOC14-CO-46	17H1621-04	Product/Solid		SW-846 8082A	
WS-AOC14-CO-47	17H1621-05	Product/Solid		SW-846 8082A	
WS-AOC14-CO-48	17H1621-06	Product/Solid		SW-846 8082A	
WS-AOC14-WO-49	17H1621-07	Product/Solid		SW-846 8082A	
WS-AOC14-CO-50	17H1621-08	Product/Solid		SW-846 8082A	
WS-AOC14-CO-51	17H1621-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-52	17H1621-10	Product/Solid		SW-846 8082A	
WS-AOC14-CO-53	17H1621-11	Product/Solid		SW-846 8082A	
WS-AOC14-CO-54	17H1621-12	Product/Solid		SW-846 8082A	
WS-AOC14-CO-55	17H1621-13	Product/Solid		SW-846 8082A	
WS-AOC14-CO-56	17H1621-14	Product/Solid		SW-846 8082A	
WS-AOC14-SE-51	17H1621-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-52	17H1621-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-53	17H1621-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-54	17H1621-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-SE-55	17H1621-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-56	17H1621-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-CO-Dup19	17H1621-21	Product/Solid		SW-846 8082A	
WS-AOC9-OIL-91	17H1621-22	Oil		EPA 600 4-81-045	
Equipment Blank-56	17H1621-23	Equipment Blank Water		SW-846 8082A	
Equipment Blank-57	17H1621-24	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				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.

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
17H1621-18[WS-AOC14-SE-54]

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17H1621-10[WS-AOC14-CO-52], 17H1621-12[WS-AOC14-CO-54], 17H1621-13[WS-AOC14-CO-55], 17H1621-14[WS-AOC14-CO-56]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1260
B185572-BS1, B185572-BSD1

Aroclor-1260 [2C]
B185572-BS1, B185572-BSD1

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:

Aroclor-1260
17H1621-23[Equipment Blank-56], 17H1621-24[Equipment Blank-57]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17H1621-18[WS-AOC14-SE-54]

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-43 Sampled: 8/30/2017 09:00

Sample ID: 17H1621-01

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1248 [2]	0.11	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1254 [2]	0.14	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1260 [2]	0.23	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/12/17 19:04
Decachlorobiphenyl [2]	78.6	30-150		9/12/17 19:04
Tetrachloro-m-xylene [1]	85.9	30-150		9/12/17 19:04
Tetrachloro-m-xylene [2]	87.7	30-150		9/12/17 19:04

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-44 Sampled: 8/30/2017 09:10

Sample ID: 17H1621-02

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1248 [2]	0.16	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1254 [2]	0.18	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1260 [2]	0.20	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		9/12/17 19:22
Decachlorobiphenyl [2]	83.7	30-150		9/12/17 19:22
Tetrachloro-m-xylene [1]	83.9	30-150		9/12/17 19:22
Tetrachloro-m-xylene [2]	88.4	30-150		9/12/17 19:22

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-45 Sampled: 8/30/2017 09:20

Sample ID: 17H1621-03

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1248 [2]	0.11	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1254 [2]	0.12	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.6	30-150		9/12/17 19:40
Decachlorobiphenyl [2]	79.9	30-150		9/12/17 19:40
Tetrachloro-m-xylene [1]	90.3	30-150		9/12/17 19:40
Tetrachloro-m-xylene [2]	89.2	30-150		9/12/17 19:40

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-46 Sampled: 8/30/2017 09:30

Sample ID: 17H1621-04

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 19:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/12/17 19:57
Decachlorobiphenyl [2]	82.8	30-150		9/12/17 19:57
Tetrachloro-m-xylene [1]	89.8	30-150		9/12/17 19:57
Tetrachloro-m-xylene [2]	90.0	30-150		9/12/17 19:57

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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-47 Sampled: 8/30/2017 09:40

Sample ID: 17H1621-05

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		9/12/17 20:15
Decachlorobiphenyl [2]	79.7	30-150		9/12/17 20:15
Tetrachloro-m-xylene [1]	84.8	30-150		9/12/17 20:15
Tetrachloro-m-xylene [2]	87.9	30-150		9/12/17 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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-48 Sampled: 8/30/2017 09:50

Sample ID: 17H1621-06

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	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1254 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1260 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		9/12/17 20:33
Decachlorobiphenyl [2]	78.9	30-150		9/12/17 20:33
Tetrachloro-m-xylene [1]	84.3	30-150		9/12/17 20:33
Tetrachloro-m-xylene [2]	85.3	30-150		9/12/17 20:33

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-WO-49 Sampled: 8/30/2017 10:00

Sample ID: 17H1621-07

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	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 20:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		9/12/17 20:51
Decachlorobiphenyl [2]	88.1	30-150		9/12/17 20:51
Tetrachloro-m-xylene [1]	92.0	30-150		9/12/17 20:51
Tetrachloro-m-xylene [2]	91.9	30-150		9/12/17 20:51

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-50 Sampled: 8/30/2017 10:10

Sample ID: 17H1621-08

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1248 [2]	0.10	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1254 [2]	0.11	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 21:56	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		9/12/17 21:56
Decachlorobiphenyl [2]	80.9	30-150		9/12/17 21:56
Tetrachloro-m-xylene [1]	70.8	30-150		9/12/17 21:56
Tetrachloro-m-xylene [2]	73.8	30-150		9/12/17 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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-51 Sampled: 8/30/2017 11:00

Sample ID: 17H1621-09

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	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:14	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.4	30-150		9/12/17 22:14
Decachlorobiphenyl [2]	52.5	30-150		9/12/17 22:14
Tetrachloro-m-xylene [1]	55.6	30-150		9/12/17 22:14
Tetrachloro-m-xylene [2]	57.5	30-150		9/12/17 22:14

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-52 Sampled: 8/30/2017 11:10

Sample ID: 17H1621-10

Sample Matrix: Product/Solid

Sample Flags: DL-03

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	9/6/17	9/13/17 8:45	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 8:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.8	30-150		9/13/17 8:45
Decachlorobiphenyl [2]	101	30-150		9/13/17 8:45
Tetrachloro-m-xylene [1]	96.7	30-150		9/13/17 8:45
Tetrachloro-m-xylene [2]	103	30-150		9/13/17 8:45

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-53 Sampled: 8/30/2017 11:20

Sample ID: 17H1621-11

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	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/6/17	9/12/17 22:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		9/12/17 22:49
Decachlorobiphenyl [2]	78.6	30-150		9/12/17 22:49
Tetrachloro-m-xylene [1]	81.9	30-150		9/12/17 22:49
Tetrachloro-m-xylene [2]	82.7	30-150		9/12/17 22:49

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-54 Sampled: 8/30/2017 11:30

Sample ID: 17H1621-12

Sample Matrix: Product/Solid

Sample Flags: DL-03

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	9/6/17	9/13/17 9:02	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		9/13/17 9:02
Decachlorobiphenyl [2]	101	30-150		9/13/17 9:02
Tetrachloro-m-xylene [1]	92.4	30-150		9/13/17 9:02
Tetrachloro-m-xylene [2]	97.9	30-150		9/13/17 9:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-55 Sampled: 8/30/2017 11:40

Sample ID: 17H1621-13

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:20	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/13/17 9:20
Decachlorobiphenyl [2]	94.2	30-150		9/13/17 9:20
Tetrachloro-m-xylene [1]	88.4	30-150		9/13/17 9:20
Tetrachloro-m-xylene [2]	93.0	30-150		9/13/17 9:20

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-56 Sampled: 8/30/2017 11:50

Sample ID: 17H1621-14

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1221 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1232 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1242 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1248 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1254 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1260 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1262 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG
Aroclor-1268 [1]	ND	0.96	mg/Kg	10		SW-846 8082A	9/6/17	9/13/17 9:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.6	30-150		9/13/17 9:38
Decachlorobiphenyl [2]	66.5	30-150		9/13/17 9:38
Tetrachloro-m-xylene [1]	60.6	30-150		9/13/17 9:38
Tetrachloro-m-xylene [2]	65.6	30-150		9/13/17 9:38

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-51 Sampled: 8/30/2017 11:05

Sample ID: 17H1621-15

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	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1248 [1]	0.59	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1254 [2]	0.53	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1260 [2]	0.21	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.6	30-150		9/10/17 2:24
Decachlorobiphenyl [2]	66.6	30-150		9/10/17 2:24
Tetrachloro-m-xylene [1]	74.1	30-150		9/10/17 2:24
Tetrachloro-m-xylene [2]	76.6	30-150		9/10/17 2:24

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-51 Sampled: 8/30/2017 11:05

Sample ID: 17H1621-15

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	43.3		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-52 Sampled: 8/30/2017 11:15

Sample ID: 17H1621-16

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	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1248 [2]	0.31	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1254 [2]	0.34	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.7	30-150		9/10/17 2:37
Decachlorobiphenyl [2]	75.9	30-150		9/10/17 2:37
Tetrachloro-m-xylene [1]	85.1	30-150		9/10/17 2:37
Tetrachloro-m-xylene [2]	88.0	30-150		9/10/17 2:37

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-52 Sampled: 8/30/2017 11:15

Sample ID: 17H1621-16

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	76.3		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-53 Sampled: 8/30/2017 11:25

Sample ID: 17H1621-17

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	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1248 [2]	0.097	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1254 [2]	0.12	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 2:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.4	30-150		9/10/17 2:49
Decachlorobiphenyl [2]	74.8	30-150		9/10/17 2:49
Tetrachloro-m-xylene [1]	80.4	30-150		9/10/17 2:49
Tetrachloro-m-xylene [2]	84.4	30-150		9/10/17 2:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-53 Sampled: 8/30/2017 11:25

Sample ID: 17H1621-17

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	84.0		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

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	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Acenaphthylene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(a)anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(a)pyrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(b)fluoranthene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(g,h,i)perylene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Benzo(k)fluoranthene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Chrysene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Dibenz(a,h)anthracene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Fluoranthene	1.7	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Fluorene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
2-Methylnaphthalene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Naphthalene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Phenanthrene	ND	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL
Pyrene	1.6	1.1	mg/Kg dry	2		SW-846 8270D	9/6/17	9/8/17 15:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	62.0	30-130		9/8/17 15:49
2-Fluorobiphenyl	61.7	30-130		9/8/17 15:49
p-Terphenyl-d14	72.0	30-130		9/8/17 15:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

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	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1248 [1]	0.21	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1254 [2]	0.35	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:02	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.4	30-150		9/10/17 3:02
Decachlorobiphenyl [2]	60.6	30-150		9/10/17 3:02
Tetrachloro-m-xylene [1]	71.6	30-150		9/10/17 3:02
Tetrachloro-m-xylene [2]	75.4	30-150		9/10/17 3:02

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1900	320	mg/Kg dry	20		CTDEP ETPH	9/6/17	9/8/17 3:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/8/17 3:46

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-54 Sampled: 8/30/2017 11:35

Sample ID: 17H1621-18

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	62.5		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-55 Sampled: 8/30/2017 11:45

Sample ID: 17H1621-19

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	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1248 [1]	2.1	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1254 [2]	1.7	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1260 [2]	0.64	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	8		SW-846 8082A	9/6/17	9/10/17 3:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.5	30-150		9/10/17 3:15
Decachlorobiphenyl [2]	61.5	30-150		9/10/17 3:15
Tetrachloro-m-xylene [1]	66.1	30-150		9/10/17 3:15
Tetrachloro-m-xylene [2]	71.8	30-150		9/10/17 3:15

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-55 Sampled: 8/30/2017 11:45

Sample ID: 17H1621-19

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	30.8		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-56 Sampled: 8/30/2017 11:55

Sample ID: 17H1621-20

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	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1248 [2]	0.33	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1254 [2]	0.55	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1260 [2]	0.30	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/6/17	9/10/17 3:27	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		9/10/17 3:27
Decachlorobiphenyl [2]	68.9	30-150		9/10/17 3:27
Tetrachloro-m-xylene [1]	75.1	30-150		9/10/17 3:27
Tetrachloro-m-xylene [2]	78.8	30-150		9/10/17 3:27

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-SE-56 Sampled: 8/30/2017 11:55

Sample ID: 17H1621-20

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	47.8		% Wt	1		SM 2540G	9/1/17	9/5/17 7:29	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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC14-CO-Dup19 Sampled: 8/30/2017 00:00

Sample ID: 17H1621-21

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	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/6/17	9/13/17 0:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		9/13/17 0:00
Decachlorobiphenyl [2]	69.8	30-150		9/13/17 0:00
Tetrachloro-m-xylene [1]	66.8	30-150		9/13/17 0:00
Tetrachloro-m-xylene [2]	66.9	30-150		9/13/17 0:00

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: WS-AOC9-OIL-91 Sampled: 8/30/2017 08:30

Sample ID: 17H1621-22

Sample Matrix: Oil

Polychlorinated Biphenyls By GC/ECD

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1260 [1]	5.0	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	1		EPA 600 4-81-045	9/7/17	9/13/17 11:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		9/13/17 11:03
Decachlorobiphenyl [2]	86.6	30-150		9/13/17 11:03
Tetrachloro-m-xylene [1]	105	30-150		9/13/17 11:03
Tetrachloro-m-xylene [2]	101	30-150		9/13/17 11:03

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-56 Sampled: 8/30/2017 08:00

Sample ID: 17H1621-23

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	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	V-20	SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.9	30-150		9/8/17 22:24
Decachlorobiphenyl [2]	100	30-150		9/8/17 22:24
Tetrachloro-m-xylene [1]	93.7	30-150		9/8/17 22:24
Tetrachloro-m-xylene [2]	90.9	30-150		9/8/17 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: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

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	9/2/17	9/7/17 19:12	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/2/17	9/7/17 19:12	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	75.1	30-130		9/7/17 19:12
2-Fluorobiphenyl	73.1	30-130		9/7/17 19:12
p-Terphenyl-d14	67.2	30-130		9/7/17 19:12

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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: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

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	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1260 [1]	ND	0.20	µg/L	1	V-20	SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/6/17	9/8/17 22:37	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.5	30-150		9/8/17 22:37
Decachlorobiphenyl [2]	101	30-150		9/8/17 22:37
Tetrachloro-m-xylene [1]	92.9	30-150		9/8/17 22:37
Tetrachloro-m-xylene [2]	89.8	30-150		9/8/17 22:37

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: 17H1621

Date Received: 8/30/2017

Field Sample #: Equipment Blank-57 Sampled: 8/30/2017 08:15

Sample ID: 17H1621-24

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	9/6/17	9/8/17 20:44	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.6	50-150		9/8/17 20:44

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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
17H1621-18 [WS-AOC14-SE-54]	B185603	30.0	1.00	09/06/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-24 [Equipment Blank-57]	B185641	1000	1.00	09/06/17

Prep Method: SW-846 3580A-EPA 600 4-81-045

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-22 [WS-AOC9-OIL-91]	B185719	0.203	10.0	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17H1621-15 [WS-AOC14-SE-51]	B185393	09/01/17
17H1621-16 [WS-AOC14-SE-52]	B185393	09/01/17
17H1621-17 [WS-AOC14-SE-53]	B185393	09/01/17
17H1621-18 [WS-AOC14-SE-54]	B185393	09/01/17
17H1621-19 [WS-AOC14-SE-55]	B185393	09/01/17
17H1621-20 [WS-AOC14-SE-56]	B185393	09/01/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-01 [WS-AOC14-CO-43]	B185662	2.04	10.0	09/06/17
17H1621-02 [WS-AOC14-CO-44]	B185662	2.02	10.0	09/06/17
17H1621-03 [WS-AOC14-CO-45]	B185662	2.03	10.0	09/06/17
17H1621-04 [WS-AOC14-CO-46]	B185662	2.08	10.0	09/06/17
17H1621-05 [WS-AOC14-CO-47]	B185662	2.04	10.0	09/06/17
17H1621-06 [WS-AOC14-CO-48]	B185662	2.07	10.0	09/06/17
17H1621-07 [WS-AOC14-WO-49]	B185662	2.15	10.0	09/06/17
17H1621-08 [WS-AOC14-CO-50]	B185662	2.09	10.0	09/06/17
17H1621-09 [WS-AOC14-CO-51]	B185662	2.05	10.0	09/06/17
17H1621-10 [WS-AOC14-CO-52]	B185662	2.02	10.0	09/06/17
17H1621-11 [WS-AOC14-CO-53]	B185662	2.02	10.0	09/06/17
17H1621-12 [WS-AOC14-CO-54]	B185662	2.02	10.0	09/06/17
17H1621-13 [WS-AOC14-CO-55]	B185662	2.08	10.0	09/06/17
17H1621-14 [WS-AOC14-CO-56]	B185662	2.08	10.0	09/06/17
17H1621-21 [WS-AOC14-CO-Dup19]	B185662	2.09	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-15 [WS-AOC14-SE-51]	B185576	10.1	10.0	09/06/17
17H1621-16 [WS-AOC14-SE-52]	B185576	10.2	10.0	09/06/17
17H1621-17 [WS-AOC14-SE-53]	B185576	10.2	10.0	09/06/17
17H1621-18 [WS-AOC14-SE-54]	B185576	10.3	10.0	09/06/17
17H1621-19 [WS-AOC14-SE-55]	B185576	10.0	10.0	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
17H1621-20 [WS-AOC14-SE-56]	B185576	10.1	10.0	09/06/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-23 [Equipment Blank-56]	B185572	1000	10.0	09/06/17
17H1621-24 [Equipment Blank-57]	B185572	1000	10.0	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17H1621-18 [WS-AOC14-SE-54]	B185658	30.0	2.00	09/06/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17H1621-24 [Equipment Blank-57]	B185447	1000	1.00	09/02/17

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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 B185447 - SW-846 3510C										
Blank (B185447-BLK1)				Prepared: 09/02/17 Analyzed: 09/06/17						
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	*77.8*		µg/L	100		77.8	30-130			
Surrogate: 2-Fluorobiphenyl	*73.6*		µg/L	100		73.6	30-130			
Surrogate: p-Terphenyl-d14	*68.8*		µg/L	100		68.8	30-130			
LCS (B185447-BS1)				Prepared: 09/02/17 Analyzed: 09/06/17						
Acenaphthene (SIM)	48.8	7.5	µg/L	50.0		97.7	40-140			
Acenaphthylene (SIM)	47.6	7.5	µg/L	50.0		95.3	40-140			
Anthracene (SIM)	51.3	5.0	µg/L	50.0		103	40-140			
Benzo(a)anthracene (SIM)	50.0	1.2	µg/L	50.0		100	40-140			
Benzo(a)pyrene (SIM)	53.6	2.5	µg/L	50.0		107	40-140			
Benzo(b)fluoranthene (SIM)	53.7	1.2	µg/L	50.0		107	40-140			
Benzo(g,h,i)perylene (SIM)	51.6	12	µg/L	50.0		103	40-140			
Benzo(k)fluoranthene (SIM)	52.7	5.0	µg/L	50.0		105	40-140			
Chrysene (SIM)	50.4	5.0	µg/L	50.0		101	40-140			
Dibenz(a,h)anthracene (SIM)	52.5	5.0	µg/L	50.0		105	40-140			
Fluoranthene (SIM)	51.0	12	µg/L	50.0		102	40-140			
Fluorene (SIM)	50.0	25	µg/L	50.0		100	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	51.9	5.0	µg/L	50.0		104	40-140			
2-Methylnaphthalene (SIM)	47.7	25	µg/L	50.0		95.4	40-140			
Naphthalene (SIM)	45.9	25	µg/L	50.0		91.8	40-140			
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140			
Pyrene (SIM)	49.6	25	µg/L	50.0		99.1	40-140			
Surrogate: Nitrobenzene-d5	*100*		µg/L	100		100	30-130			
Surrogate: 2-Fluorobiphenyl	*106*		µg/L	100		106	30-130			
Surrogate: p-Terphenyl-d14	*84.5*		µg/L	100		84.5	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 B185447 - SW-846 3510C										
LCS Dup (B185447-BSD1)				Prepared: 09/02/17 Analyzed: 09/06/17						
Acenaphthene (SIM)	44.4	7.5	µg/L	50.0		88.8	40-140	9.60	20	
Acenaphthylene (SIM)	43.4	7.5	µg/L	50.0		86.8	40-140	9.34	20	
Anthracene (SIM)	46.4	5.0	µg/L	50.0		92.9	40-140	9.87	20	
Benzo(a)anthracene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140	10.4	20	
Benzo(a)pyrene (SIM)	47.8	2.5	µg/L	50.0		95.7	40-140	11.3	20	
Benzo(b)fluoranthene (SIM)	48.7	1.2	µg/L	50.0		97.4	40-140	9.86	20	
Benzo(g,h,i)perylene (SIM)	46.1	12	µg/L	50.0		92.2	40-140	11.4	20	
Benzo(k)fluoranthene (SIM)	47.4	5.0	µg/L	50.0		94.8	40-140	10.5	20	
Chrysene (SIM)	45.6	5.0	µg/L	50.0		91.2	40-140	9.99	20	
Dibenz(a,h)anthracene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140	11.4	20	
Fluoranthene (SIM)	44.9	12	µg/L	50.0		89.8	40-140	12.7	20	
Fluorene (SIM)	44.2	25	µg/L	50.0		88.5	40-140	12.3	20	
Indeno(1,2,3-cd)pyrene (SIM)	46.0	5.0	µg/L	50.0		92.1	40-140	12.0	20	‡
2-Methylnaphthalene (SIM)	43.1	25	µg/L	50.0		86.2	40-140	10.1	20	
Naphthalene (SIM)	41.9	25	µg/L	50.0		83.8	40-140	9.00	20	
Phenanthrene (SIM)	45.5	1.2	µg/L	50.0		91.0	40-140	10.1	20	
Pyrene (SIM)	45.8	25	µg/L	50.0		91.7	40-140	7.76	20	
Surrogate: Nitrobenzene-d5	*90.0*		µg/L	100		90.0	30-130			
Surrogate: 2-Fluorobiphenyl	*94.8*		µg/L	100		94.8	30-130			
Surrogate: p-Terphenyl-d14	*75.1*		µg/L	100		75.1	30-130			
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							
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	*2.27*		mg/Kg wet	3.33		68.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.41*		mg/Kg wet	3.33		72.4	30-130			
Surrogate: p-Terphenyl-d14	*3.28*		mg/Kg wet	3.33		98.5	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						
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			
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			
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			
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			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Phenanthrene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Pyrene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140			
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: 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	
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	
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	
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	
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	0.384	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140	1.83	30	
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	1.35	30	
Phenanthrene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140	3.81	30	
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	2.66	30	
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: p-Terphenyl-d14	*2.90*		mg/Kg wet	3.33		87.1	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 B185572 - SW-846 3510C										
Blank (B185572-BLK1)				Prepared: 09/06/17 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	*2.15*		µg/L	2.00		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.27*		µg/L	2.00		114	30-150			
Surrogate: Tetrachloro-m-xylene	*2.11*		µg/L	2.00		105	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*2.01*		µg/L	2.00		100	30-150			
LCS (B185572-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Aroclor-1016	0.52	0.20	µg/L	0.500		104	40-140			
Aroclor-1016 [2C]	0.48	0.20	µg/L	0.500		96.7	40-140			
Aroclor-1260	0.50	0.20	µg/L	0.500		100	40-140			V-06
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.2	40-140			V-06
Surrogate: Decachlorobiphenyl	*2.00*		µg/L	2.00		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene	*1.92*		µg/L	2.00		96.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.84*		µg/L	2.00		92.1	30-150			
LCS Dup (B185572-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
Aroclor-1016	0.51	0.20	µg/L	0.500		103	40-140	1.23	20	
Aroclor-1016 [2C]	0.49	0.20	µg/L	0.500		98.1	40-140	1.48	20	
Aroclor-1260	0.51	0.20	µg/L	0.500		102	40-140	1.23	20	V-06
Aroclor-1260 [2C]	0.49	0.20	µg/L	0.500		98.1	40-140	1.99	20	V-06
Surrogate: Decachlorobiphenyl	*1.97*		µg/L	2.00		98.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene	*1.86*		µg/L	2.00		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.78*		µg/L	2.00		89.2	30-150			

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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 B185719 - SW-846 3580A										
Blank (B185719-BLK1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1016	ND	0.97	mg/Kg							
Aroclor-1016 [2C]	ND	0.97	mg/Kg							
Aroclor-1221	ND	0.97	mg/Kg							
Aroclor-1221 [2C]	ND	0.97	mg/Kg							
Aroclor-1232	ND	0.97	mg/Kg							
Aroclor-1232 [2C]	ND	0.97	mg/Kg							
Aroclor-1242	ND	0.97	mg/Kg							
Aroclor-1242 [2C]	ND	0.97	mg/Kg							
Aroclor-1248	ND	0.97	mg/Kg							
Aroclor-1248 [2C]	ND	0.97	mg/Kg							
Aroclor-1254	ND	0.97	mg/Kg							
Aroclor-1254 [2C]	ND	0.97	mg/Kg							
Aroclor-1260	ND	0.97	mg/Kg							
Aroclor-1260 [2C]	ND	0.97	mg/Kg							
Aroclor-1262	ND	0.97	mg/Kg							
Aroclor-1262 [2C]	ND	0.97	mg/Kg							
Aroclor-1268	ND	0.97	mg/Kg							
Aroclor-1268 [2C]	ND	0.97	mg/Kg							
Surrogate: Decachlorobiphenyl	*8.26*		mg/Kg	9.72		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*7.76*		mg/Kg	9.72		79.8	30-150			
Surrogate: Tetrachloro-m-xylene	*8.12*		mg/Kg	9.72		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*8.59*		mg/Kg	9.72		88.4	30-150			
LCS (B185719-BS1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1260	35	6.3	mg/Kg	33.8		104	85-115			
Aroclor-1260 [2C]	34	6.3	mg/Kg	33.8		101	85-115			
Surrogate: Decachlorobiphenyl	*62.1*		mg/Kg	62.9		98.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*59.4*		mg/Kg	62.9		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	*58.8*		mg/Kg	62.9		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*60.4*		mg/Kg	62.9		96.0	30-150			
LCS Dup (B185719-BSD1)				Prepared: 09/07/17 Analyzed: 09/10/17						
Aroclor-1260	34	6.5	mg/Kg	33.8		101	85-115	3.14	30	
Aroclor-1260 [2C]	33	6.5	mg/Kg	33.8		98.3	85-115	2.75	30	
Surrogate: Decachlorobiphenyl	*62.4*		mg/Kg	64.7		96.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*59.8*		mg/Kg	64.7		92.3	30-150			
Surrogate: Tetrachloro-m-xylene	*58.4*		mg/Kg	64.7		90.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*60.4*		mg/Kg	64.7		93.3	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 B185576 - SW-846 3540C										
Blank (B185576-BLK1)				Prepared: 09/06/17 Analyzed: 09/09/17						
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	*0.214*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg wet	0.200		105	30-150			
LCS (B185576-BS1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.1	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.3	40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg wet	0.200		103	30-150			
LCS Dup (B185576-BSD1)				Prepared: 09/06/17 Analyzed: 09/09/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.0	40-140	6.46	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	5.67	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.8	40-140	9.91	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.5	40-140	10.0	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.2	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 B185662 - SW-846 3540C										
Blank (B185662-BLK1)				Prepared: 09/06/17 Analyzed: 09/12/17						
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	*1.03*		mg/Kg	1.00		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.964*		mg/Kg	1.00		96.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.925*		mg/Kg	1.00		92.5	30-150			
LCS (B185662-BS1)				Prepared: 09/06/17 Analyzed: 09/12/17						
Aroclor-1016	0.91	0.10	mg/Kg	1.00		91.1	40-140			
Aroclor-1016 [2C]	0.89	0.10	mg/Kg	1.00		88.7	40-140			
Aroclor-1260	0.83	0.10	mg/Kg	1.00		83.1	40-140			
Aroclor-1260 [2C]	0.78	0.10	mg/Kg	1.00		77.8	40-140			
Surrogate: Decachlorobiphenyl	*1.04*		mg/Kg	1.00		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.989*		mg/Kg	1.00		98.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.938*		mg/Kg	1.00		93.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.944*		mg/Kg	1.00		94.4	30-150			
LCS Dup (B185662-BSD1)				Prepared: 09/06/17 Analyzed: 09/12/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.7	40-140	0.703	30	
Aroclor-1016 [2C]	0.91	0.10	mg/Kg	1.00		91.4	40-140	3.03	30	
Aroclor-1260	0.85	0.10	mg/Kg	1.00		85.2	40-140	2.47	30	
Aroclor-1260 [2C]	0.79	0.10	mg/Kg	1.00		79.2	40-140	1.75	30	
Surrogate: Decachlorobiphenyl	*1.02*		mg/Kg	1.00		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.980*		mg/Kg	1.00		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.956*		mg/Kg	1.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.960*		mg/Kg	1.00		96.0	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 B185603 - SW-846 3546										
Blank (B185603-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.25*		mg/Kg wet	3.33		97.5	50-150			
LCS (B185603-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	23.2	10	mg/Kg wet	33.3		69.5	60-120			
Surrogate: o-Terphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			
LCS Dup (B185603-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
CT ETPH	25.8	10	mg/Kg wet	33.3		77.3	60-120	10.6	30	
Surrogate: o-Terphenyl	*3.33*		mg/Kg wet	3.33		99.8	50-150			
Batch B185641 - SW-846 3510C										
Blank (B185641-BLK1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	*0.0982*		mg/L	0.100		98.2	50-150			
LCS (B185641-BS1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	0.781	0.075	mg/L	1.00		78.1	60-120			
Surrogate: o-Terphenyl	*0.0952*		mg/L	0.100		95.2	50-150			
LCS Dup (B185641-BSD1)				Prepared: 09/06/17 Analyzed: 09/08/17						
CT ETPH	0.756	0.075	mg/L	1.00		75.6	60-120	3.30	30	
Surrogate: o-Terphenyl	*0.0925*		mg/L	0.100		92.5	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-43

Lab Sample ID: 17H1621-01 Date(s) Analyzed: 09/12/2017 09/12/2017

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-1248	1	0.000	0.000	0.000	0.099	
	2	0.000	0.000	0.000	0.11	10.5
Aroclor-1254	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.14	0.0
Aroclor-1260	1	0.000	0.000	0.000	0.20	
	2	0.000	0.000	0.000	0.23	14.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-44

Lab Sample ID: 17H1621-02 Date(s) Analyzed: 09/12/2017 09/12/2017

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-1248	1	0.000	0.000	0.000	0.14	
	2	0.000	0.000	0.000	0.16	13.3
Aroclor-1254	1	0.000	0.000	0.000	0.16	
	2	0.000	0.000	0.000	0.18	11.8
Aroclor-1260	1	0.000	0.000	0.000	0.15	
	2	0.000	0.000	0.000	0.20	28.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-45

Lab Sample ID: 17H1621-03 Date(s) Analyzed: 09/12/2017 09/12/2017

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-1248	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.11	0.0
Aroclor-1254	1	0.000	0.000	0.000	0.12	
	2	0.000	0.000	0.000	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-CO-50

Lab Sample ID: 17H1621-08 Date(s) Analyzed: 09/12/2017 09/12/2017

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-1248	1	0.000	0.000	0.000	0.096	
	2	0.000	0.000	0.000	0.10	4.1
Aroclor-1254	1	0.000	0.000	0.000	0.11	
	2	0.000	0.000	0.000	0.11	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-51

Lab Sample ID: 17H1621-15 Date(s) Analyzed: 09/10/2017 09/10/2017

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-1248	1	0.000	-0.030	0.030	0.59	
	2	0.000	-0.030	0.030	0.56	5.2
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.53	12.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.21	10.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-52

Lab Sample ID: 17H1621-16 Date(s) Analyzed: 09/10/2017 09/10/2017

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-1248	1	0.000	-0.030	0.030	0.30	
	2	0.000	-0.030	0.030	0.31	3.3
Aroclor-1254	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.34	9.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-53

Lab Sample ID: 17H1621-17

Date(s) Analyzed: 09/10/2017 09/10/2017

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-1254	1	0.000	-0.030	0.030	0.097	
	2	0.000	-0.030	0.030	0.12	21.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-54

Lab Sample ID: 17H1621-18 Date(s) Analyzed: 09/10/2017 09/10/2017

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-1248	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1254	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.35	18.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-55

Lab Sample ID: 17H1621-19 Date(s) Analyzed: 09/10/2017 09/10/2017

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-1248	1	0.000	-0.030	0.030	2.1	
	2	0.000	-0.030	0.030	1.9	10.0
Aroclor-1254	1	0.000	-0.030	0.030	1.6	
	2	0.000	-0.030	0.030	1.7	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.57	
	2	0.000	-0.030	0.030	0.64	11.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-56

Lab Sample ID: 17H1621-20 Date(s) Analyzed: 09/10/2017 09/10/2017

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-1248	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.33	6.3
Aroclor-1254	1	0.000	-0.030	0.030	0.47	
	2	0.000	-0.030	0.030	0.55	15.7
Aroclor-1260	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.30	3.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

WS-AOC9-OIL-91

Lab Sample ID: 17H1621-22

Date(s) Analyzed: 09/13/2017 09/13/2017

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-1260	1	0.000	0.000	0.000	5.0	
	2	0.000	0.000	0.000	4.2	17.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185572-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	0.52	
	2	0.000	0.000	0.000	0.48	8.0
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 Dup

Lab Sample ID: B185572-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	0.51	
	2	0.000	0.000	0.000	0.49	4.0
Aroclor-1260	1	0.000	0.000	0.000	0.51	
	2	0.000	0.000	0.000	0.49	4.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185576-BS1

Date(s) Analyzed: 09/09/2017 09/09/2017

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	0.20	
	2	0.000	-0.030	0.030	0.19	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185576-BSD1 Date(s) Analyzed: 09/09/2017 09/09/2017

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	0.18	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B185662-BS1

Date(s) Analyzed: 09/12/2017 09/12/2017

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	0.000	0.000	0.91	
	2	0.000	0.000	0.000	0.89	2.2
Aroclor-1260	1	0.000	0.000	0.000	0.83	
	2	0.000	0.000	0.000	0.78	6.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B185662-BSD1 Date(s) Analyzed: 09/12/2017 09/12/2017

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	0.000	0.000	0.92	
	2	0.000	0.000	0.000	0.91	1.1
Aroclor-1260	1	0.000	0.000	0.000	0.85	
	2	0.000	0.000	0.000	0.79	7.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS

Lab Sample ID: B185719-BS1

Date(s) Analyzed: 09/10/2017 09/10/2017

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	0.000	0.000	35	
	2	0.000	0.000	0.000	34	2.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

EPA 600 4-81-045

LCS Dup

Lab Sample ID: B185719-BSD1

Date(s) Analyzed: 09/10/2017 09/10/2017

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	0.000	0.000	34	
	2	0.000	0.000	0.000	33	3.0

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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.
DL-03	Elevated reporting limit due to matrix.
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.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.
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
EPA 600 4-81-045 in Oil	
Aroclor-1016	MA,NY,ME
Aroclor-1016 [2C]	MA,NY,ME
Aroclor-1221	MA,NY,ME
Aroclor-1221 [2C]	MA,NY,ME
Aroclor-1232	MA,NY,ME
Aroclor-1232 [2C]	MA,NY,ME
Aroclor-1242	MA,NY,ME
Aroclor-1242 [2C]	MA,NY,ME
Aroclor-1248	MA,NY,ME
Aroclor-1248 [2C]	MA,NY,ME
Aroclor-1254	MA,NY,ME
Aroclor-1254 [2C]	MA,NY,ME
Aroclor-1260	MA,NY,ME
Aroclor-1260 [2C]	MA,NY,ME
Aroclor-1262	MA,NY,ME
Aroclor-1262 [2C]	MA,NY,ME
Aroclor-1268	MA,NY,ME
Aroclor-1268 [2C]	MA,NY,ME
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
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

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 8082A in Soil	
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 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 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

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	
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

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

17H1621

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 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 Via Soxhlet										# of Containers
								[2] I										[2] Preservation Code
								[3] A										[3] Container Code
01	WS-AOC14-Co-43	8/30/17	900		X	O	U	X										
02	WS-AOC14-Co-44		910					X										
03	WS-AOC14-Co-45		920					X										
04	WS-AOC14-Co-46		930					X										
05	WS-AOC14-Co-47		940					X										
06	WS-AOC14-Co-48		950					X										
07	WS-AOC14-WO-49		1000					X										
08	WS-AOC14-Co-50		1010					X										
09	WS-AOC14-Co-51		1100					X										
10	WS-AOC14-Co-52		1110					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) Porous Media

[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:
8/30/17	
Received by: (signature) Tom Maul	Date/Time: 8/30/17 1645
Relinquished by: (signature) Tom Maul	Date/Time: 8/30/17 1830
Received by: (signature) 2.4°C	Date/Time: 8/30/17 1830
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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Fax: 413-525-6405
Email: info@contestlabs.com

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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 Borthiaume~~/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 via Soxhlet	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC14-CO-53	8/30/17	1120		X	O	U	X			1	I	A
12	WS-AOC14-CO-54	8/30/17	1130					X					
13	WS-AOC14-CO-55		1140					X					
14	WS-AOC14-CO-56		1150					X					
15	WS-AOC14-SE-51		1105			S		X					
16	WS-AOC14-SE-52		1115					X					
17	WS-AOC14-SE-53		1125					X					
18	WS-AOC14-SE-54		1135					X	X	X			
19	WS-AOC14-SE-55		1145					X					
20	WS-AOC14-SE-56		1155					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) Porous Media

[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:
8/30/17	
Received by: (signature) Tom Mac	Date/Time: 8/30/17 1645
Relinquished by: (signature) Tom Mac	Date/Time: 8/30/17 1830
Received by: (signature) 2.4.c	Date/Time: 8/30/17 1830
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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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 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 via Soxhlet	PCBs	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC14-Co-Dup 19	8/30/17	—		X	O	U	X						
22	WS-AOC9-OIL-91		830		X	OIL	U		X					
23	Equipment Blank-56		800		X	W	U		X					
24	Equipment Blank-57		815		X	W	U		X	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) Porous Media

[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:
8/30/17	
Received by: (signature) Tom Maui	Date/Time: 8/30/17 1645
Relinquished by: (signature) Tom Maui	Date/Time: 8/30/17 1830
Received by: (signature)	Date/Time: 8/30/17 1830
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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East Longmeadow, MA. 01028
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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 RLF Date 8/30/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.4°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 ID's T Sampler Name T
Project 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.	8	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	6
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	16
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\A090717.SEC\A0907107.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0907107.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	633604	668690	-5
c - 10	1.63	642603	668690	-4
c - 12	2.35	661457	668690	-1
c - 14	3.01	675114	668690	1
c - 16	3.61	691044	668690	3
c - 18	4.23	682814	668690	2
o-Terphenyl	4.51	760564	668690	
c - 20	4.83	689419	668690	3
c - 22	5.34	698070	668690	4
c - 24	5.77	652285	668690	-2
c - 26	6.17	681611	668690	2
c - 28	6.52	673200	668690	1
c - 30	6.86	670545	668690	0
c - 32	7.16	656318	668690	-2
c - 34	7.46	660463	668690	-1
c - 36	7.77	661808	668690	-1

* One compound allowed %D <= 50%

Samples

17H1579-01RE1
17H1544-11
17H1621-18@20X

D:\HPCHEM\1\DATA\A091117\A0911006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/11/17
Data File Name	A0911006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	524328	554084	-5
c - 10	1.64	532804	554084	-4
c - 12	2.37	552317	554084	0
c - 14	3.04	566100	554084	2
c - 16	3.65	580624	554084	5
c - 18	4.29	575815	554084	4
o-Terphenyl	4.57	636260	554084	
c - 20	4.89	583143	554084	5
c - 22	5.39	592516	554084	7
c - 24	5.83	553643	554084	0
c - 26	6.23	583238	554084	5
c - 28	6.59	572763	554084	3
c - 30	6.92	554883	554084	0
c - 32	7.23	523847	554084	-5
c - 34	7.53	511661	554084	-8
c - 36	7.87	503585	554084	-9

* One compound allowed %D </= 50%

Samples

17I0043-04@10X

D:\HPCHEM\1\DATA\A090817\A0908022.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908022.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	481727	522771	-8
c - 10	1.64	490421	522771	-6
c - 12	2.37	509864	522771	-2
c - 14	3.04	523547	522771	0
c - 16	3.65	537626	522771	3
c - 18	4.29	533903	522771	2
o-Terphenyl	4.57	592385	522771	
c - 20	4.89	542364	522771	4
c - 22	5.39	553081	522771	6
c - 24	5.83	517523	522771	-1
c - 26	6.23	545373	522771	4
c - 28	6.59	537619	522771	3
c - 30	6.92	530058	522771	1
c - 32	7.24	513896	522771	-2
c - 34	7.53	512488	522771	-2
c - 36	7.88	512079	522771	-2

* One compound allowed %D </= 50%

Samples

17I0043-01
17I0043-02
17I0043-03
17I0043-05

D:\HPCHEM\1\DATA\A090817.SEC\A0908023.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908023.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	595189	627905	-5
c - 10	1.62	603227	627905	-4
c - 12	2.34	621946	627905	-1
c - 14	3.01	635030	627905	1
c - 16	3.61	650070	627905	4
c - 18	4.23	642037	627905	2
o-Terphenyl	4.51	713270	627905	
c - 20	4.83	648513	627905	3
c - 22	5.34	656041	627905	4
c - 24	5.77	610215	627905	-3
c - 26	6.16	640547	627905	2
c - 28	6.52	632830	627905	1
c - 30	6.85	628422	627905	0
c - 32	7.16	615507	627905	-2
c - 34	7.46	619124	627905	-1
c - 36	7.77	619880	627905	-1

* One compound allowed %D <= 50%

Samples

17H1621-24
17I0058-15
17I0065-01
17I0066-03
17H1066-03
17H1066-02
17H1066-03
17H1066-04
17H1066-05
17H1643-01
17H1643-01
117I0028-01

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: 17H1621

Laboratory Sample ID(s):

17H1621-01 thru 17H1621-24

Sample Date(s):

08/30/2017

List RCP Methods Used:

CTDEP ETPH, EPA 600 4-81-045, 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:** **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 15, 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: 17I0058

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: 9/15/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0058

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-AOC14-SE-57	17I0058-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-58	17I0058-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-59	17I0058-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-60	17I0058-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-61	17I0058-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-62	17I0058-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-63	17I0058-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC14-CO-57	17I0058-08	Product/Solid		SW-846 8082A	
WS-AOC14-CO-58	17I0058-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-59	17I0058-10	Product/Solid		SW-846 8082A	
WS-AOC14-CO-60	17I0058-11	Product/Solid		SW-846 8082A	
WS-AOC14-CO-61	17I0058-12	Product/Solid		SW-846 8082A	
WS-AOC14-CO-62	17I0058-13	Product/Solid		SW-846 8082A	
WS-AOC14-CO-63	17I0058-14	Product/Solid		SW-846 8082A	
Equipment Blank-59	17I0058-15	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment Blank-60	17I0058-16	Equipment Blank Water		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:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0058-10[WS-AOC14-CO-59]

O-03

Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.

Analyte & Samples(s) Qualified:

Aroclor-1254 [2C]
17I0058-02[WS-AOC14-SE-58]

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B185791-BS1, B185791-BSD1

SW-846 8270D

Qualifications:

E

Reported result is estimated. Value reported over verified calibration range.

Analyte & Samples(s) Qualified:

Benzo(b)fluoranthene
17I0058-07[WS-AOC14-SE-63]

Fluoranthene
17I0058-07[WS-AOC14-SE-63]

Phenanthrene
17I0058-07[WS-AOC14-SE-63]

Pyrene
17I0058-07[WS-AOC14-SE-63]

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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-57 Sampled: 9/1/2017 08:30

Sample ID: 17I0058-01

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	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	35.0	30-150		9/13/17 22:38
Decachlorobiphenyl [2]	47.5	30-150		9/13/17 22:38
Tetrachloro-m-xylene [1]	37.2	30-150		9/13/17 22:38
Tetrachloro-m-xylene [2]	34.9	30-150		9/13/17 22:38

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-57 Sampled: 9/1/2017 08:30

Sample ID: 17I0058-01

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	68.0		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-58 Sampled: 9/1/2017 08:40

Sample ID: 17I0058-02

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	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1254 [2]	0.13	0.086	mg/Kg dry	4	O-03	SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 22:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.9	30-150		9/13/17 22:56
Decachlorobiphenyl [2]	102	30-150		9/13/17 22:56
Tetrachloro-m-xylene [1]	91.3	30-150		9/13/17 22:56
Tetrachloro-m-xylene [2]	87.4	30-150		9/13/17 22:56

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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-58 Sampled: 9/1/2017 08:40

Sample ID: 17I0058-02

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	92.5		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-59 Sampled: 9/1/2017 08:50

Sample ID: 17I0058-03

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	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1254 [2]	0.16	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/13/17 23:13
Decachlorobiphenyl [2]	119	30-150		9/13/17 23:13
Tetrachloro-m-xylene [1]	95.5	30-150		9/13/17 23:13
Tetrachloro-m-xylene [2]	90.3	30-150		9/13/17 23:13

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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-59 Sampled: 9/1/2017 08:50

Sample ID: 17I0058-03

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	57.3		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-60 Sampled: 9/1/2017 09:00

Sample ID: 17I0058-04

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	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1254 [2]	0.17	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.4	30-150		9/13/17 23:30
Decachlorobiphenyl [2]	115	30-150		9/13/17 23:30
Tetrachloro-m-xylene [1]	94.2	30-150		9/13/17 23:30
Tetrachloro-m-xylene [2]	91.1	30-150		9/13/17 23:30

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-60 Sampled: 9/1/2017 09:00

Sample ID: 17I0058-04

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	56.1		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-61 Sampled: 9/1/2017 09:10

Sample ID: 17I0058-05

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	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1248 [2]	0.12	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1254 [2]	0.15	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1260 [2]	0.14	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/8/17	9/13/17 23:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.8	30-150		9/13/17 23:48
Decachlorobiphenyl [2]	126	30-150		9/13/17 23:48
Tetrachloro-m-xylene [1]	87.4	30-150		9/13/17 23:48
Tetrachloro-m-xylene [2]	82.6	30-150		9/13/17 23:48

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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-61 Sampled: 9/1/2017 09:10

Sample ID: 17I0058-05

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	90.8		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-62 Sampled: 9/1/2017 09:20

Sample ID: 17I0058-06

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	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1248 [2]	0.20	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1254 [2]	0.27	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1260 [2]	0.27	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/14/17 0:05
Decachlorobiphenyl [2]	146	30-150		9/14/17 0:05
Tetrachloro-m-xylene [1]	85.4	30-150		9/14/17 0:05
Tetrachloro-m-xylene [2]	80.8	30-150		9/14/17 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-62 Sampled: 9/1/2017 09:20

Sample ID: 17I0058-06

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	95.8		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-63 Sampled: 9/1/2017 09:30

Sample ID: 17I0058-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.42	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Acenaphthene	ND	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Acenaphthylene	0.29	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Acenaphthylene	ND	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Anthracene	1.8	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Anthracene	1.9	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Benzo(a)anthracene	5.1	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Benzo(a)anthracene	5.3	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Benzo(a)pyrene	4.6	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Benzo(a)pyrene	4.7	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Benzo(b)fluoranthene	6.6	0.27	mg/Kg dry	1	E	SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Benzo(b)fluoranthene	6.7	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Benzo(g,h,i)perylene	3.2	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Benzo(g,h,i)perylene	2.6	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Benzo(k)fluoranthene	2.3	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Benzo(k)fluoranthene	2.4	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Chrysene	5.6	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Chrysene	5.7	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Dibenz(a,h)anthracene	0.86	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Dibenz(a,h)anthracene	ND	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Fluoranthene	16	0.27	mg/Kg dry	1	E	SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Fluoranthene	14	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Fluorene	0.80	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Fluorene	ND	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Indeno(1,2,3-cd)pyrene	3.5	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Indeno(1,2,3-cd)pyrene	2.8	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
2-Methylnaphthalene	1.0	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
2-Methylnaphthalene	ND	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Naphthalene	1.8	0.27	mg/Kg dry	1		SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Naphthalene	1.9	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Phenanthrene	8.8	0.27	mg/Kg dry	1	E	SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Phenanthrene	8.0	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL
Pyrene	15	0.27	mg/Kg dry	1	E	SW-846 8270D	9/8/17	9/11/17 18:31	BGL
Pyrene	12	1.4	mg/Kg dry	5		SW-846 8270D	9/8/17	9/12/17 15:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.5	30-130		9/11/17 18:31
Nitrobenzene-d5	45.7	30-130		9/12/17 15:56
2-Fluorobiphenyl	44.6	30-130		9/11/17 18:31
2-Fluorobiphenyl	46.8	30-130		9/12/17 15:56
p-Terphenyl-d14	54.0	30-130		9/11/17 18:31
p-Terphenyl-d14	50.4	30-130		9/12/17 15:56

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-63 Sampled: 9/1/2017 09:30

Sample ID: 17I0058-07

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	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1248 [2]	0.23	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1254 [2]	0.28	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1260 [2]	0.21	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/8/17	9/14/17 0:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.0	30-150		9/14/17 0:23
Decachlorobiphenyl [2]	121	30-150		9/14/17 0:23
Tetrachloro-m-xylene [1]	87.3	30-150		9/14/17 0:23
Tetrachloro-m-xylene [2]	82.1	30-150		9/14/17 0:23

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-63 Sampled: 9/1/2017 09:30

Sample ID: 17I0058-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	160	mg/Kg dry	10		CTDEP ETPH	9/8/17	9/12/17 0:11	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		9/12/17 0:11

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-SE-63 Sampled: 9/1/2017 09:30

Sample ID: 17I0058-07

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	62.9		% 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-57 Sampled: 9/1/2017 08:35

Sample ID: 17I0058-08

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	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1221 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1232 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1242 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1248 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1254 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1260 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1262 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG
Aroclor-1268 [1]	ND	0.079	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		9/14/17 15:03
Decachlorobiphenyl [2]	67.4	30-150		9/14/17 15:03
Tetrachloro-m-xylene [1]	82.7	30-150		9/14/17 15:03
Tetrachloro-m-xylene [2]	86.0	30-150		9/14/17 15:03

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-58 Sampled: 9/1/2017 08:45

Sample ID: 17I0058-09

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	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		9/14/17 15:16
Decachlorobiphenyl [2]	80.5	30-150		9/14/17 15:16
Tetrachloro-m-xylene [1]	88.3	30-150		9/14/17 15:16
Tetrachloro-m-xylene [2]	89.4	30-150		9/14/17 15:16

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-59 Sampled: 9/1/2017 08:55

Sample ID: 17I0058-10

Sample Matrix: Product/Solid

Sample Flags: DL-03

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	9/8/17	9/14/17 15:28	TG
Aroclor-1221 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1232 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1242 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1248 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1254 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1260 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1262 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG
Aroclor-1268 [1]	ND	0.99	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 15:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.0	30-150		9/14/17 15:28
Decachlorobiphenyl [2]	94.1	30-150		9/14/17 15:28
Tetrachloro-m-xylene [1]	86.4	30-150		9/14/17 15:28
Tetrachloro-m-xylene [2]	90.6	30-150		9/14/17 15:28

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-60 Sampled: 9/1/2017 09:05

Sample ID: 17I0058-11

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	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.0	30-150		9/14/17 15:41
Decachlorobiphenyl [2]	75.4	30-150		9/14/17 15:41
Tetrachloro-m-xylene [1]	82.8	30-150		9/14/17 15:41
Tetrachloro-m-xylene [2]	83.1	30-150		9/14/17 15:41

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-61 Sampled: 9/1/2017 09:15

Sample ID: 17I0058-12

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	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 15:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.8	30-150		9/14/17 15:54
Decachlorobiphenyl [2]	55.2	30-150		9/14/17 15:54
Tetrachloro-m-xylene [1]	66.8	30-150		9/14/17 15:54
Tetrachloro-m-xylene [2]	69.5	30-150		9/14/17 15:54

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-62 Sampled: 9/1/2017 09:25

Sample ID: 17I0058-13

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	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.6	30-150		9/14/17 16:06
Decachlorobiphenyl [2]	65.4	30-150		9/14/17 16:06
Tetrachloro-m-xylene [1]	73.9	30-150		9/14/17 16:06
Tetrachloro-m-xylene [2]	75.2	30-150		9/14/17 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: 17I0058

Date Received: 9/1/2017

Field Sample #: WS-AOC14-CO-63 Sampled: 9/1/2017 09:35

Sample ID: 17I0058-14

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	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 16:19	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.9	30-150		9/14/17 16:19
Decachlorobiphenyl [2]	82.4	30-150		9/14/17 16:19
Tetrachloro-m-xylene [1]	85.2	30-150		9/14/17 16:19
Tetrachloro-m-xylene [2]	85.7	30-150		9/14/17 16:19

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: Equipment Blank-59 Sampled: 9/1/2017 08:00

Sample ID: 17I0058-15

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	9/8/17	9/11/17 15:30	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/8/17	9/11/17 15:30	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	64.8	30-130		9/11/17 15:30
2-Fluorobiphenyl	63.9	30-130		9/11/17 15:30
p-Terphenyl-d14	52.4	30-130		9/11/17 15:30

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: Equipment Blank-59 Sampled: 9/1/2017 08:00

Sample ID: 17I0058-15

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	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.8	30-150		9/13/17 1:40
Decachlorobiphenyl [2]	72.7	30-150		9/13/17 1:40
Tetrachloro-m-xylene [1]	67.1	30-150		9/13/17 1:40
Tetrachloro-m-xylene [2]	68.5	30-150		9/13/17 1:40

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: Equipment Blank-59 Sampled: 9/1/2017 08:00

Sample ID: 17I0058-15

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	9/8/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.8	50-150		9/8/17 21:02

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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: 17I0058

Date Received: 9/1/2017

Field Sample #: Equipment Blank-60 Sampled: 9/1/2017 08:15

Sample ID: 17I0058-16

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	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/8/17	9/13/17 1:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/13/17 1:52
Decachlorobiphenyl [2]	75.8	30-150		9/13/17 1:52
Tetrachloro-m-xylene [1]	83.1	30-150		9/13/17 1:52
Tetrachloro-m-xylene [2]	81.6	30-150		9/13/17 1:52

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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
17I0058-07 [WS-AOC14-SE-63]	B185825	30.0	1.00	09/08/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0058-15 [Equipment Blank-59]	B185690	1000	1.00	09/07/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0058-01 [WS-AOC14-SE-57]	B185578	09/06/17
17I0058-02 [WS-AOC14-SE-58]	B185578	09/06/17
17I0058-03 [WS-AOC14-SE-59]	B185578	09/06/17
17I0058-04 [WS-AOC14-SE-60]	B185578	09/06/17
17I0058-05 [WS-AOC14-SE-61]	B185578	09/06/17
17I0058-06 [WS-AOC14-SE-62]	B185578	09/06/17
17I0058-07 [WS-AOC14-SE-63]	B185578	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0058-08 [WS-AOC14-CO-57]	B185833	2.52	10.0	09/08/17
17I0058-09 [WS-AOC14-CO-58]	B185833	2.09	10.0	09/08/17
17I0058-10 [WS-AOC14-CO-59]	B185833	2.02	10.0	09/08/17
17I0058-11 [WS-AOC14-CO-60]	B185833	2.09	10.0	09/08/17
17I0058-12 [WS-AOC14-CO-61]	B185833	2.19	10.0	09/08/17
17I0058-13 [WS-AOC14-CO-62]	B185833	2.03	10.0	09/08/17
17I0058-14 [WS-AOC14-CO-63]	B185833	2.16	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0058-01 [WS-AOC14-SE-57]	B185859	10.0	10.0	09/08/17
17I0058-02 [WS-AOC14-SE-58]	B185859	10.0	10.0	09/08/17
17I0058-03 [WS-AOC14-SE-59]	B185859	10.0	10.0	09/08/17
17I0058-04 [WS-AOC14-SE-60]	B185859	10.0	10.0	09/08/17
17I0058-05 [WS-AOC14-SE-61]	B185859	10.0	10.0	09/08/17
17I0058-06 [WS-AOC14-SE-62]	B185859	10.0	10.0	09/08/17
17I0058-07 [WS-AOC14-SE-63]	B185859	10.0	10.0	09/08/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0058-15 [Equipment Blank-59]	B185791	1000	10.0	09/08/17
17I0058-16 [Equipment Blank-60]	B185791	1000	10.0	09/08/17

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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-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0058-07 [WS-AOC14-SE-63]	B185827	30.0	1.00	09/08/17
17I0058-07RE1 [WS-AOC14-SE-63]	B185827	30.0	1.00	09/08/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0058-15 [Equipment Blank-59]	B185792	1000	1.00	09/08/17

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

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 B185792 - SW-846 3510C										
Blank (B185792-BLK1)				Prepared: 09/08/17 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	*70.8*		µg/L	100		70.8	30-130			
Surrogate: 2-Fluorobiphenyl	*71.7*		µg/L	100		71.7	30-130			
Surrogate: p-Terphenyl-d14	*62.0*		µg/L	100		62.0	30-130			
LCS (B185792-BS1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	43.4	7.5	µg/L	50.0		86.8	40-140			
Acenaphthylene (SIM)	42.3	7.5	µg/L	50.0		84.6	40-140			
Anthracene (SIM)	45.3	5.0	µg/L	50.0		90.6	40-140			
Benzo(a)anthracene (SIM)	44.2	1.2	µg/L	50.0		88.4	40-140			
Benzo(a)pyrene (SIM)	47.2	2.5	µg/L	50.0		94.3	40-140			
Benzo(b)fluoranthene (SIM)	48.1	1.2	µg/L	50.0		96.2	40-140			
Benzo(g,h,i)perylene (SIM)	45.1	12	µg/L	50.0		90.2	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.7	40-140			
Chrysene (SIM)	44.3	5.0	µg/L	50.0		88.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.8	5.0	µg/L	50.0		91.6	40-140			
Fluoranthene (SIM)	45.0	12	µg/L	50.0		90.1	40-140			
Fluorene (SIM)	44.8	25	µg/L	50.0		89.5	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	45.4	5.0	µg/L	50.0		90.8	40-140			
2-Methylnaphthalene (SIM)	42.0	25	µg/L	50.0		84.0	40-140			
Naphthalene (SIM)	40.1	25	µg/L	50.0		80.2	40-140			
Phenanthrene (SIM)	44.3	1.2	µg/L	50.0		88.6	40-140			
Pyrene (SIM)	44.4	25	µg/L	50.0		88.8	40-140			
Surrogate: Nitrobenzene-d5	*84.2*		µg/L	100		84.2	30-130			
Surrogate: 2-Fluorobiphenyl	*93.6*		µg/L	100		93.6	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			

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

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 B185792 - SW-846 3510C										
LCS Dup (B185792-BSD1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Acenaphthene (SIM)	43.8	7.5	µg/L	50.0		87.6	40-140	0.974	20	
Acenaphthylene (SIM)	42.3	7.5	µg/L	50.0		84.6	40-140	0.00	20	
Anthracene (SIM)	46.4	5.0	µg/L	50.0		92.8	40-140	2.35	20	
Benzo(a)anthracene (SIM)	44.8	1.2	µg/L	50.0		89.6	40-140	1.40	20	
Benzo(a)pyrene (SIM)	47.8	2.5	µg/L	50.0		95.6	40-140	1.37	20	
Benzo(b)fluoranthene (SIM)	48.5	1.2	µg/L	50.0		97.0	40-140	0.880	20	
Benzo(g,h,i)perylene (SIM)	46.2	12	µg/L	50.0		92.5	40-140	2.46	20	
Benzo(k)fluoranthene (SIM)	47.2	5.0	µg/L	50.0		94.4	40-140	0.744	20	
Chrysene (SIM)	44.8	5.0	µg/L	50.0		89.6	40-140	1.23	20	
Dibenz(a,h)anthracene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140	2.32	20	
Fluoranthene (SIM)	46.6	12	µg/L	50.0		93.1	40-140	3.28	20	
Fluorene (SIM)	45.1	25	µg/L	50.0		90.2	40-140	0.779	20	
Indeno(1,2,3-cd)pyrene (SIM)	46.4	5.0	µg/L	50.0		92.7	40-140	2.07	20	‡
2-Methylnaphthalene (SIM)	42.0	25	µg/L	50.0		84.0	40-140	0.00	20	
Naphthalene (SIM)	40.3	25	µg/L	50.0		80.6	40-140	0.622	20	
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140	1.73	20	
Pyrene (SIM)	44.1	25	µg/L	50.0		88.2	40-140	0.678	20	
Surrogate: Nitrobenzene-d5	*82.6*		µg/L	100		82.6	30-130			
Surrogate: 2-Fluorobiphenyl	*93.7*		µg/L	100		93.7	30-130			
Surrogate: p-Terphenyl-d14	*74.4*		µg/L	100		74.4	30-130			
Batch B185827 - SW-846 3546										
Blank (B185827-BLK1)				Prepared: 09/08/17 Analyzed: 09/11/17						
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		69.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.30*		mg/Kg wet	3.33		69.2	30-130			
Surrogate: p-Terphenyl-d14	*3.12*		mg/Kg wet	3.33		93.6	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 B185827 - SW-846 3546										
LCS (B185827-BS1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Acenaphthene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140			
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140			
Anthracene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140			
Benzo(a)anthracene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140			
Benzo(g,h,i)perylene	1.17	0.17	mg/Kg wet	1.67		70.2	40-140			
Benzo(k)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Chrysene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140			
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.5	40-140			
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
2-Methylnaphthalene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Phenanthrene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Pyrene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Surrogate: Nitrobenzene-d5	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.60*		mg/Kg wet	3.33		77.9	30-130			
Surrogate: p-Terphenyl-d14	*2.98*		mg/Kg wet	3.33		89.3	30-130			
LCS Dup (B185827-BSD1)				Prepared: 09/08/17 Analyzed: 09/11/17						
Acenaphthene	0.976	0.17	mg/Kg wet	1.67		58.6	40-140	3.55	30	
Acenaphthylene	0.972	0.17	mg/Kg wet	1.67		58.3	40-140	3.07	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	2.65	30	
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	3.39	30	
Benzo(a)pyrene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	3.51	30	
Benzo(b)fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	4.31	30	
Benzo(g,h,i)perylene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	2.39	30	
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	3.73	30	
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.7	40-140	2.64	30	
Dibenz(a,h)anthracene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140	0.356	30	
Fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.2	40-140	0.311	30	
Fluorene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	4.24	30	
Indeno(1,2,3-cd)pyrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	1.01	30	
2-Methylnaphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140	4.61	30	
Naphthalene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	5.65	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	2.93	30	
Pyrene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	4.03	30	
Surrogate: Nitrobenzene-d5	*2.45*		mg/Kg wet	3.33		73.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.49*		mg/Kg wet	3.33		74.7	30-130			
Surrogate: p-Terphenyl-d14	*2.88*		mg/Kg wet	3.33		86.5	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 B185791 - SW-846 3510C										
Blank (B185791-BLK1)				Prepared: 09/08/17 Analyzed: 09/13/17						
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	*1.80*		µg/L	2.00		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.79*		µg/L	2.00		89.4	30-150			
Surrogate: Tetrachloro-m-xylene	*1.84*		µg/L	2.00		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.61*		µg/L	2.00		80.7	30-150			
LCS (B185791-BS1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.44	0.20	µg/L	0.500		87.5	40-140			
Aroclor-1016 [2C]	0.55	0.20	µg/L	0.500		110	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		84.3	40-140			
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		99.3	40-140			V-06
Surrogate: Decachlorobiphenyl	*1.89*		µg/L	2.00		94.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.86*		µg/L	2.00		93.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.92*		µg/L	2.00		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.4	30-150			
LCS Dup (B185791-BSD1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.41	0.20	µg/L	0.500		81.4	40-140	7.20	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	6.78	20	
Aroclor-1260	0.38	0.20	µg/L	0.500		76.7	40-140	9.45	20	
Aroclor-1260 [2C]	0.45	0.20	µg/L	0.500		90.8	40-140	8.95	20	V-06
Surrogate: Decachlorobiphenyl	*1.73*		µg/L	2.00		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.72*		µg/L	2.00		86.0	30-150			
Surrogate: Tetrachloro-m-xylene	*1.73*		µg/L	2.00		86.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.58*		µg/L	2.00		79.0	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 B185833 - SW-846 3540C										
Blank (B185833-BLK1)				Prepared: 09/08/17 Analyzed: 09/14/17						
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	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	1.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.926*		mg/Kg	1.00		92.6	30-150			
LCS (B185833-BS1)				Prepared: 09/08/17 Analyzed: 09/14/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00		89.7	40-140			
Aroclor-1016 [2C]	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260	0.83	0.10	mg/Kg	1.00		82.6	40-140			
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.2	40-140			
Surrogate: Decachlorobiphenyl	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.928*		mg/Kg	1.00		92.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.927*		mg/Kg	1.00		92.7	30-150			
LCS Dup (B185833-BSD1)				Prepared: 09/08/17 Analyzed: 09/14/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.9	40-140	2.46	30	
Aroclor-1016 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	4.96	30	
Aroclor-1260	0.83	0.10	mg/Kg	1.00		82.6	40-140	0.0660	30	
Aroclor-1260 [2C]	0.76	0.10	mg/Kg	1.00		76.0	40-140	1.06	30	
Surrogate: Decachlorobiphenyl	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.904*		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.909*		mg/Kg	1.00		90.9	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 B185859 - SW-846 3540C										
Blank (B185859-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	*0.168*		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.155*		mg/Kg wet	0.200		77.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.139*		mg/Kg wet	0.200		69.3	30-150			
LCS (B185859-BS1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		82.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.8	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		77.7	40-140			
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		93.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		75.2	30-150			
LCS Dup (B185859-BSD1)				Prepared: 09/08/17 Analyzed: 09/13/17						
Aroclor-1016	0.14	0.020	mg/Kg wet	0.200		69.0	40-140	18.2	30	
Aroclor-1016 [2C]	0.14	0.020	mg/Kg wet	0.200		68.4	40-140	14.8	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		63.9	40-140	19.6	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		64.1	40-140	19.1	30	
Surrogate: Decachlorobiphenyl	*0.149*		mg/Kg wet	0.200		74.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.146*		mg/Kg wet	0.200		73.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		69.9	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 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 B185825 - SW-846 3546										
Blank (B185825-BLK1)				Prepared: 09/08/17 Analyzed: 09/11/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.79*		mg/Kg wet	3.33		83.6	50-150			
LCS (B185825-BS1)				Prepared: 09/08/17 Analyzed: 09/11/17						
CT ETPH	23.3	10	mg/Kg wet	33.3		70.0	60-120			
Surrogate: o-Terphenyl	*2.74*		mg/Kg wet	3.33		82.2	50-150			
LCS Dup (B185825-BSD1)				Prepared: 09/08/17 Analyzed: 09/11/17						
CT ETPH	24.1	10	mg/Kg wet	33.3		72.4	60-120	3.33	30	
Surrogate: o-Terphenyl	*2.81*		mg/Kg wet	3.33		84.4	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-58

Lab Sample ID: 17I0058-02

Date(s) Analyzed: 09/13/2017 09/13/2017

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	0.11	
	2	0.000	-0.030	0.030	0.13	16.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-60

Lab Sample ID: 17I0058-04

Date(s) Analyzed: 09/13/2017 09/13/2017

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	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-61

Lab Sample ID: 17I0058-05 Date(s) Analyzed: 09/13/2017 09/13/2017

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-1248	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.12	8.7
Aroclor-1254	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.14	15.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-62

Lab Sample ID: 17I0058-06 Date(s) Analyzed: 09/14/2017 09/14/2017

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-1248	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.20	16.2
Aroclor-1254	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.27	16.0
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.27	3.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-63

Lab Sample ID: 17I0058-07 Date(s) Analyzed: 09/14/2017 09/14/2017

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-1248	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1254	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.28	19.6
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	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.
DL-03	Elevated reporting limit due to matrix.
E	Reported result is estimated. Value reported over verified calibration range.
O-03	Sample contains two incompletely resolved aroclors. Aroclor with the closest matching pattern is reported.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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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 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
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 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

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 8082A in Water	
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 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	09/30/2017
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

17I0058

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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

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 Bartlamme~~/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)	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC14-SE-57	9/1/17	830		X	S	U	X					
2	WS-AOC14-SE-58	↓	840		↓	↓	↓	X					
3	WS-AOC14-SE-59		850					X					
4	WS-AOC14-SE-60		900					X					
5	WS-AOC14-SE-61		910					X					
6	WS-AOC14-SE-62		920					X					
7	WS-AOC14-SE-63		930			↓		X	X	X			
8	WS-AOC14-Co-57		835			O		X					
9	WS-AOC14-Co-58		845					X					
10	WS-AOC14-Co-59	↓	855		↓	↓	↓	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) Porous Media

[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:
9/1/17	
Received by: (signature)	Date/Time: 9/1/17 1411
Relinquished by: (signature)	Date/Time: 9/1/17 1510
Received by: (signature) 9-1-17	Date/Time: 3:00
Relinquished by: (signature) 9-1-17	Date/Time: 4:50
Received by: (signature)	Date/Time: 3.8°C 9/1/17 16:50

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
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 Rochlitzime~~/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)	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC14-Co-60	9/1/17	905		X	O	U	X					
12	WS-AOC14-Co-61	↓	915		↓	↓	↓	X					
13	WS-AOC14-Co-62	↓	925		↓	↓	↓	X					
14	WS-AOC14-Co-63	↓	935		↓	↓	↓	X					
15	Equipment Blank-59	↓	0800		X	W	U	X	X	X			
16	Equipment Blank-60	↓	0815		X	W	U	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) porous media

[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:
9/1/17	
Received by: (signature)	Date/Time:
9/1/17	1411
Relinquished by: (signature)	Date/Time:
	9/1/17 1510
Received by: (signature)	Date/Time:
9-1-17	3:00
Relinquished by: (signature)	Date/Time:
9-1-17	4:50
Received by: (signature)	Date/Time: 3.8°C
	9/1/17 16:50

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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East Longmeadow, MA. 01028
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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 Engineers

Received By WCG Date 9/1/17 Time 16:50

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 - 3.8°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? N/A On COC? N/A
Do all samples have the proper pH? Acid N/A Base N/A

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.	8	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	7
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	7
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\A091117\A0911006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/11/17
Data File Name	A0911006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	524328	554084	-5
c - 10	1.64	532804	554084	-4
c - 12	2.37	552317	554084	0
c - 14	3.04	566100	554084	2
c - 16	3.65	580624	554084	5
c - 18	4.29	575815	554084	4
o-Terphenyl	4.57	636260	554084	
c - 20	4.89	583143	554084	5
c - 22	5.39	592516	554084	7
c - 24	5.83	553643	554084	0
c - 26	6.23	583238	554084	5
c - 28	6.59	572763	554084	3
c - 30	6.92	554883	554084	0
c - 32	7.23	523847	554084	-5
c - 34	7.53	511661	554084	-8
c - 36	7.87	503585	554084	-9

* One compound allowed %D </= 50%

Samples

17I0043-04@10X

D:\HPCHEM\1\DATA\A090817\A0908022.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908022.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	481727	522771	-8
c - 10	1.64	490421	522771	-6
c - 12	2.37	509864	522771	-2
c - 14	3.04	523547	522771	0
c - 16	3.65	537626	522771	3
c - 18	4.29	533903	522771	2
o-Terphenyl	4.57	592385	522771	
c - 20	4.89	542364	522771	4
c - 22	5.39	553081	522771	6
c - 24	5.83	517523	522771	-1
c - 26	6.23	545373	522771	4
c - 28	6.59	537619	522771	3
c - 30	6.92	530058	522771	1
c - 32	7.24	513896	522771	-2
c - 34	7.53	512488	522771	-2
c - 36	7.88	512079	522771	-2

* One compound allowed %D </= 50%

Samples

17I0043-01
17I0043-02
17I0043-03
17I0043-05

D:\HPCHEM\1\DATA\A090817.SEC\A0908023.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/8/17
Data File Name	A0908023.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	595189	627905	-5
c - 10	1.62	603227	627905	-4
c - 12	2.34	621946	627905	-1
c - 14	3.01	635030	627905	1
c - 16	3.61	650070	627905	4
c - 18	4.23	642037	627905	2
o-Terphenyl	4.51	713270	627905	
c - 20	4.83	648513	627905	3
c - 22	5.34	656041	627905	4
c - 24	5.77	610215	627905	-3
c - 26	6.16	640547	627905	2
c - 28	6.52	632830	627905	1
c - 30	6.85	628422	627905	0
c - 32	7.16	615507	627905	-2
c - 34	7.46	619124	627905	-1
c - 36	7.77	619880	627905	-1

* One compound allowed %D <= 50%

Samples

17H1621-24
17I0058-15
17I0065-01
17I0066-03
17H1066-03
17H1066-02
17H1066-03
17H1066-04
17H1066-05
17H1643-01
17H1643-01
117I0028-01

D:\HPCHEM\1\DATA\A091117.SEC\A0911007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/11/17
Data File Name	A0911007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598919	619450	-3
c - 10	1.63	606630	619450	-2
c - 12	2.35	624726	619450	1
c - 14	3.01	638582	619450	3
c - 16	3.61	653643	619450	6
c - 18	4.23	645873	619450	4
o-Terphenyl	4.51	717552	619450	
c - 20	4.83	651457	619450	5
c - 22	5.34	658639	619450	6
c - 24	5.77	612116	619450	-1
c - 26	6.16	641867	619450	4
c - 28	6.52	630405	619450	2
c - 30	6.85	613103	619450	-1
c - 32	7.16	581090	619450	-6
c - 34	7.45	571374	619450	-8
c - 36	7.77	563330	619450	-9

* One compound allowed %D </= 50%

Samples

17H1658-02
17H1658-03

D:\HPCHEM\1\DATA\A091117.SEC\A0911061.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/11/17
Data File Name	A0911061.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	612985	629018	-3
c - 10	1.63	621912	629018	-1
c - 12	2.35	638923	629018	2
c - 14	3.01	649701	629018	3
c - 16	3.61	662581	629018	5
c - 18	4.23	653072	629018	4
o-Terphenyl	4.51	724686	629018	
c - 20	4.83	659129	629018	5
c - 22	5.34	665621	629018	6
c - 24	5.77	618003	629018	-2
c - 26	6.16	647801	629018	3
c - 28	6.52	636949	629018	1
c - 30	6.85	621308	629018	-1
c - 32	7.16	592505	629018	-6
c - 34	7.46	581731	629018	-8
c - 36	7.77	573055	629018	-9

* One compound allowed %D </= 50%

Samples

17I0058-07@10X

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: 17I0058

Laboratory Sample ID(s):

17I0058-01 thru 17I0058-16

Sample Date(s):

09/01/2017

List RCP Methods Used:

CTDEP ETPH, 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:** **09/15/17**

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 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: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

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-AOC12E-SO-5-1	17I0112-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-5-2	17I0112-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-1	17I0112-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-2	17I0112-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-3	17I0112-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-1	17I0112-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-2	17I0112-07	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-35-3	17I0112-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-1	17I0112-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-21-2	17I0112-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-3	17I0112-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-1	17I0112-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-2	17I0112-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-3	17I0112-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-1	17I0112-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-2	17I0112-16	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

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-AOC15-SO-1-3	17I0112-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-1	17I0112-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-2	17I0112-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-3	17I0112-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-Dup47	17I0112-21	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank - 61	17I0112-22	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment Blank - 62	17I0112-23	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	

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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:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0112-07[WS-AOC12E-SO-35-2]

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.4	30-150		9/16/17 14:07
Decachlorobiphenyl [2]	110	30-150		9/16/17 14:07
Tetrachloro-m-xylene [1]	95.8	30-150		9/16/17 14:07
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 14:07

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		9/12/17 23:59

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

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	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

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	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/16/17 14:24
Decachlorobiphenyl [2]	103	30-150		9/16/17 14:24
Tetrachloro-m-xylene [1]	95.4	30-150		9/16/17 14:24
Tetrachloro-m-xylene [2]	96.1	30-150		9/16/17 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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

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	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:42
Decachlorobiphenyl [2]	100	30-150		9/16/17 14:42
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 14:42
Tetrachloro-m-xylene [2]	95.9	30-150		9/16/17 14:42

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.1	50-150		9/12/17 21:20

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

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	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

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	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:59
Decachlorobiphenyl [2]	105	30-150		9/16/17 14:59
Tetrachloro-m-xylene [1]	91.1	30-150		9/16/17 14:59
Tetrachloro-m-xylene [2]	95.1	30-150		9/16/17 14:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

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	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		9/16/17 15:17
Decachlorobiphenyl [2]	112	30-150		9/16/17 15:17
Tetrachloro-m-xylene [1]	100	30-150		9/16/17 15:17
Tetrachloro-m-xylene [2]	106	30-150		9/16/17 15:17

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

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	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/16/17 15:34
Decachlorobiphenyl [2]	88.3	30-150		9/16/17 15:34
Tetrachloro-m-xylene [1]	84.8	30-150		9/16/17 15:34
Tetrachloro-m-xylene [2]	84.3	30-150		9/16/17 15:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.2	50-150		9/12/17 21:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

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	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	35.1	30-130		9/12/17 17:56
2-Fluorobiphenyl	37.6	30-130		9/12/17 17:56
p-Terphenyl-d14	42.2	30-130		9/12/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		9/16/17 15:52
Decachlorobiphenyl [2]	86.7	30-150		9/16/17 15:52
Tetrachloro-m-xylene [1]	88.2	30-150		9/16/17 15:52
Tetrachloro-m-xylene [2]	92.2	30-150		9/16/17 15:52

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/16/17 16:09
Decachlorobiphenyl [2]	86.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [1]	89.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 16:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

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	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.9	30-130		9/12/17 18:24
2-Fluorobiphenyl	53.0	30-130		9/12/17 18:24
p-Terphenyl-d14	60.1	30-130		9/12/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		9/16/17 16:27
Decachlorobiphenyl [2]	84.8	30-150		9/16/17 16:27
Tetrachloro-m-xylene [1]	86.6	30-150		9/16/17 16:27
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 16:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		9/16/17 17:32
Decachlorobiphenyl [2]	99.8	30-150		9/16/17 17:32
Tetrachloro-m-xylene [1]	94.4	30-150		9/16/17 17:32
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 17:32

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.9	50-150		9/12/17 22:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		9/16/17 17:49
Decachlorobiphenyl [2]	92.2	30-150		9/16/17 17:49
Tetrachloro-m-xylene [1]	89.8	30-150		9/16/17 17:49
Tetrachloro-m-xylene [2]	92.4	30-150		9/16/17 17:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

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	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

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	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		9/16/17 18:07
Decachlorobiphenyl [2]	102	30-150		9/16/17 18:07
Tetrachloro-m-xylene [1]	110	30-150		9/16/17 18:07
Tetrachloro-m-xylene [2]	118	30-150		9/16/17 18:07

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:24
Decachlorobiphenyl [2]	94.8	30-150		9/16/17 18:24
Tetrachloro-m-xylene [1]	96.3	30-150		9/16/17 18:24
Tetrachloro-m-xylene [2]	107	30-150		9/16/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.0	50-150		9/12/17 18:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

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	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		9/16/17 18:42
Decachlorobiphenyl [2]	94.3	30-150		9/16/17 18:42
Tetrachloro-m-xylene [1]	87.7	30-150		9/16/17 18:42
Tetrachloro-m-xylene [2]	93.1	30-150		9/16/17 18:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

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	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:59
Decachlorobiphenyl [2]	98.6	30-150		9/16/17 18:59
Tetrachloro-m-xylene [1]	95.9	30-150		9/16/17 18:59
Tetrachloro-m-xylene [2]	102	30-150		9/16/17 18:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.4	50-150		9/12/17 22:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

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	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

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	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		9/16/17 19:16
Decachlorobiphenyl [2]	102	30-150		9/16/17 19:16
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 19:16
Tetrachloro-m-xylene [2]	89.6	30-150		9/16/17 19:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		9/16/17 19:34
Decachlorobiphenyl [2]	80.4	30-150		9/16/17 19:34
Tetrachloro-m-xylene [1]	80.3	30-150		9/16/17 19:34
Tetrachloro-m-xylene [2]	85.3	30-150		9/16/17 19:34

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

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	82.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		9/16/17 19:51
Decachlorobiphenyl [2]	89.4	30-150		9/16/17 19:51
Tetrachloro-m-xylene [1]	92.2	30-150		9/16/17 19:51
Tetrachloro-m-xylene [2]	93.5	30-150		9/16/17 19:51

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		9/16/17 20:09
Decachlorobiphenyl [2]	67.8	30-150		9/16/17 20:09
Tetrachloro-m-xylene [1]	81.2	30-150		9/16/17 20:09
Tetrachloro-m-xylene [2]	96.9	30-150		9/16/17 20:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.4	50-150		9/12/17 22:48

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

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	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

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	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.9	30-150		9/16/17 20:26
Decachlorobiphenyl [2]	64.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [1]	70.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [2]	65.6	30-150		9/16/17 20:26

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

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	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

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	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/11/17 18:49
Decachlorobiphenyl [2]	89.8	30-150		9/11/17 18:49
Tetrachloro-m-xylene [1]	83.6	30-150		9/11/17 18:49
Tetrachloro-m-xylene [2]	77.2	30-150		9/11/17 18:49

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

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	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		9/14/17 17:06
2-Fluorobiphenyl	80.0	30-130		9/14/17 17:06
p-Terphenyl-d14	80.2	30-130		9/14/17 17:06

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/14/17 17:16
Decachlorobiphenyl [2]	74.0	30-150		9/14/17 17:16
Tetrachloro-m-xylene [1]	95.5	30-150		9/14/17 17:16
Tetrachloro-m-xylene [2]	79.0	30-150		9/14/17 17:16

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.7	50-150		9/12/17 21:02

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.7	30-130		9/14/17 17:35
2-Fluorobiphenyl	83.4	30-130		9/14/17 17:35
p-Terphenyl-d14	81.6	30-130		9/14/17 17:35

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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		9/14/17 17:28
Decachlorobiphenyl [2]	79.1	30-150		9/14/17 17:28
Tetrachloro-m-xylene [1]	104	30-150		9/14/17 17:28
Tetrachloro-m-xylene [2]	79.6	30-150		9/14/17 17:28

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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		9/12/17 21:20

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
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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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 B185922 - SW-846 3546										
Blank (B185922-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
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	*2.10*		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8	30-130			
LCS (B185922-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.7	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 B185922 - SW-846 3546										
LCS Dup (B185922-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Batch B185977 - SW-846 3510C										
Blank (B185977-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
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	*87.6*		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	*85.2*		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	*82.4*		µg/L	100		82.4	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 B185977 - SW-846 3510C										
LCS (B185977-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	*92.6*		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*93.5*		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	*98.4*		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	*99.8*		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	*86.0*		µg/L	100		86.0	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 B185890 - SW-846 3510C										
Blank (B185890-BLK1)				Prepared: 09/11/17 Analyzed: 09/14/17						
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	*1.96*		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.18*		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	*2.02*		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.80*		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	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 B185830 - SW-846 3540C										
Blank (B185830-BLK1)				Prepared: 09/08/17 Analyzed: 09/10/17						
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	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.142*		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	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 B185867 - SW-846 3540C										
Blank (B185867-BLK1)				Prepared: 09/10/17 Analyzed: 09/16/17						
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	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg wet	0.200		75.4	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 B185867 - SW-846 3540C										
Matrix Spike (B185867-MS1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.225		90.2	30-150			
Matrix Spike Dup (B185867-MSD1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.224*		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.228		105	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 B185892 - SW-846 3510C											
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.0784*		mg/L	0.100		78.4		50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.633	0.075	mg/L	1.00		63.3		60-120			
Surrogate: o-Terphenyl	*0.0709*		mg/L	0.100		70.9		50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.663	0.075	mg/L	1.00		66.3		60-120	4.71	30	
Surrogate: o-Terphenyl	*0.0745*		mg/L	0.100		74.5		50-150			
Batch B185921 - SW-846 3546											
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.52*		mg/Kg wet	3.33		75.6		50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0		60-120			
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.0		50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8		60-120	6.10	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4		50-150			
Matrix Spike (B185921-MS1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	242	56	mg/Kg dry	37.3	261	**-50.1**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*2.44*		mg/Kg dry	3.73		65.3		50-150			
Matrix Spike Dup (B185921-MSD1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	259	56	mg/Kg dry	37.3	261	**-5.38**	*	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	*2.47*		mg/Kg dry	3.73		66.2		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 B185594 - % Solids										
Duplicate (B185594-DUP5)		**Source: 17I0112-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt		81.9			3.86	20	
Duplicate (B185594-DUP6)		**Source: 17I0112-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt		83.0			2.19	20	

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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-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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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 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 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 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	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(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

17I0112

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	PCBs (Soxhlet)	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-5-1	9/5/17	1330		X	S	U	X	X				
2	WS-AOC12E-SO-5-2		1331					X					
3	WS-AOC12E-SO-17-1		1340					X	X				
4	WS-AOC12E-SO-17-2		1341					X					
5	WS-AOC12E-SO-17-3		1342					X					
6	WS-AOC12E-SO-35-1		1403					X	X				
7	WS-AOC12E-SO-35-2		1404					X		X			
8	WS-AOC12E-SO-35-3		1405					X					
9	WS-AOC12E-SO-21-1		1400					X		X			
10	WS-AOC12E-SO-21-2		1401					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.

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) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature) 9/5/17	Date/Time: 1640
Received by: (signature) 9/5/17	Date/Time: 1640
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 # 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)	Kepone	PAH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12-SO-21-3	9/5/17	1402		X	S	U	X					
12	WS-AOC12E-SO-25-1		1414					X					
13	WS-AOC12E-SO-25-2		1415					X	X				
14	WS-AOC12E-SO-25-3		1416					X					
15	WS-AOC15-SO-1-1		1427					X	X				
16	WS-AOC15-SO-1-2		1428					X					
17	WS-AOC15-SO-1-3		1429					X					
18	WS-AOC12E-SO-42-1		1459					X					
19	WS-AOC12E-SO-42-2		1500					X	X				
20	WS-AOC12E-SO-42-3		1501					X					

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) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 4:40
Received by: (signature) 3-3	Date/Time: 9/5/17 1640
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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East Longmeadow, MA 01028

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7-Day ☑ 10-Day ☐
Other: 5-day ☐

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

Data Delivery
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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)	ETPH	PAH	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOCIZE-SO-Dup47	9/5/17	—		X	S	U	X					
22	Equipment Blank-61	↓	1200		X	W	U	X	X	X			
23	Equipment Blank-62	↓	1220		X	W	U	X	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
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O = Other (please define) _____

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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) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1740
Received by: (signature) 9/5/17	Date/Time: 1640
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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East Longmeadow, MA. 01028
P: 413-525-2332
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 9/5/17 Time 1640

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 - 3.3, 3.7
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? 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.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	21
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\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\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples
17H1672-02
17H1672-03
17H1672-04
17H1672-08
17H1672-12
17H1672-14
17H1672-16
17I0112-13
17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912038.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples
17I0112-06
17I0112-03
17I0112-10
17I0112-15
17I0112-19
17I0297-01
17H1672-01
17H1672-09
17I0112-01

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: 17I0112

Laboratory Sample ID(s):
17I0112-01 thru 17I0112-23

Sample Date(s):
09/05/2017

List RCP Methods Used:
CTDEP ETPH, 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:** **09/18/17**

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 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: 17I0112

Enclosed are results of analyses for samples received by the laboratory on September 5, 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: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

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-AOC12E-SO-5-1	17I0112-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-5-2	17I0112-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-1	17I0112-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-2	17I0112-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-17-3	17I0112-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-1	17I0112-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-35-2	17I0112-07	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-35-3	17I0112-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-1	17I0112-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC12E-SO-21-2	17I0112-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-21-3	17I0112-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-1	17I0112-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-2	17I0112-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-25-3	17I0112-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-1	17I0112-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC15-SO-1-2	17I0112-16	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 9/18/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0112

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-AOC15-SO-1-3	17I0112-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-1	17I0112-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-2	17I0112-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-42-3	17I0112-20	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-Dup47	17I0112-21	Soil		SM 2540G	
				SW-846 8082A	
Equipment Blank - 61	17I0112-22	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	
Equipment Blank - 62	17I0112-23	Equipment Blank Water		CTDEP ETPH	
				SW-846 8082A	
				SW-846 8270D	

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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:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17I0112-03[WS-AOC12E-SO-17-1], B185921-MS1, B185921-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17I0112-07[WS-AOC12E-SO-35-2]

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.4	30-150		9/16/17 14:07
Decachlorobiphenyl [2]	110	30-150		9/16/17 14:07
Tetrachloro-m-xylene [1]	95.8	30-150		9/16/17 14:07
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 14:07

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 23:59	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		9/12/17 23:59

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-1 Sampled: 9/5/2017 13:30

Sample ID: 17I0112-01

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	81.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

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	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/16/17 14:24
Decachlorobiphenyl [2]	103	30-150		9/16/17 14:24
Tetrachloro-m-xylene [1]	95.4	30-150		9/16/17 14:24
Tetrachloro-m-xylene [2]	96.1	30-150		9/16/17 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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-5-2 Sampled: 9/5/2017 13:31

Sample ID: 17I0112-02

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	83.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:42
Decachlorobiphenyl [2]	100	30-150		9/16/17 14:42
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 14:42
Tetrachloro-m-xylene [2]	95.9	30-150		9/16/17 14:42

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	56	mg/Kg dry	5	MS-07A	CTDEP ETPH	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	69.1	50-150		9/12/17 21:20

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-1 Sampled: 9/5/2017 13:40

Sample ID: 17I0112-03

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	89.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

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	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 14:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.2	30-150		9/16/17 14:59
Decachlorobiphenyl [2]	105	30-150		9/16/17 14:59
Tetrachloro-m-xylene [1]	91.1	30-150		9/16/17 14:59
Tetrachloro-m-xylene [2]	95.1	30-150		9/16/17 14:59

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-2 Sampled: 9/5/2017 13:41

Sample ID: 17I0112-04

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	85.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

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	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	100	30-150		9/16/17 15:17
Decachlorobiphenyl [2]	112	30-150		9/16/17 15:17
Tetrachloro-m-xylene [1]	100	30-150		9/16/17 15:17
Tetrachloro-m-xylene [2]	106	30-150		9/16/17 15:17

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-17-3 Sampled: 9/5/2017 13:42

Sample ID: 17I0112-05

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	87.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.6	30-150		9/16/17 15:34
Decachlorobiphenyl [2]	88.3	30-150		9/16/17 15:34
Tetrachloro-m-xylene [1]	84.8	30-150		9/16/17 15:34
Tetrachloro-m-xylene [2]	84.3	30-150		9/16/17 15:34

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	240	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	62.2	50-150		9/12/17 21:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-1 Sampled: 9/5/2017 14:03

Sample ID: 17I0112-06

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	84.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)anthracene	0.39	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(a)pyrene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(b)fluoranthene	0.49	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Chrysene	0.40	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluoranthene	0.68	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Fluorene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Naphthalene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Phenanthrene	ND	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL
Pyrene	0.67	0.38	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 17:56	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	35.1	30-130		9/12/17 17:56
2-Fluorobiphenyl	37.6	30-130		9/12/17 17:56
p-Terphenyl-d14	42.2	30-130		9/12/17 17:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 15:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.8	30-150		9/16/17 15:52
Decachlorobiphenyl [2]	86.7	30-150		9/16/17 15:52
Tetrachloro-m-xylene [1]	88.2	30-150		9/16/17 15:52
Tetrachloro-m-xylene [2]	92.2	30-150		9/16/17 15:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-2 Sampled: 9/5/2017 14:04

Sample ID: 17I0112-07

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	90.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		9/16/17 16:09
Decachlorobiphenyl [2]	86.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [1]	89.1	30-150		9/16/17 16:09
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 16:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-35-3 Sampled: 9/5/2017 14:05

Sample ID: 17I0112-08

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	83.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)anthracene	0.32	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(a)pyrene	0.27	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(b)fluoranthene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Chrysene	0.45	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluoranthene	0.68	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Phenanthrene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL
Pyrene	0.56	0.20	mg/Kg dry	1		SW-846 8270D	9/11/17	9/12/17 18:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.9	30-130		9/12/17 18:24
2-Fluorobiphenyl	53.0	30-130		9/12/17 18:24
p-Terphenyl-d14	60.1	30-130		9/12/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 16:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.2	30-150		9/16/17 16:27
Decachlorobiphenyl [2]	84.8	30-150		9/16/17 16:27
Tetrachloro-m-xylene [1]	86.6	30-150		9/16/17 16:27
Tetrachloro-m-xylene [2]	91.5	30-150		9/16/17 16:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-1 Sampled: 9/5/2017 14:00

Sample ID: 17I0112-09

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	83.3		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		9/16/17 17:32
Decachlorobiphenyl [2]	99.8	30-150		9/16/17 17:32
Tetrachloro-m-xylene [1]	94.4	30-150		9/16/17 17:32
Tetrachloro-m-xylene [2]	100	30-150		9/16/17 17:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	62	mg/Kg dry	5		CTDEP ETPH	9/11/17	9/12/17 22:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	92.9	50-150		9/12/17 22:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-2 Sampled: 9/5/2017 14:01

Sample ID: 17I0112-10

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

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	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 17:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.2	30-150		9/16/17 17:49
Decachlorobiphenyl [2]	92.2	30-150		9/16/17 17:49
Tetrachloro-m-xylene [1]	89.8	30-150		9/16/17 17:49
Tetrachloro-m-xylene [2]	92.4	30-150		9/16/17 17:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-21-3 Sampled: 9/5/2017 14:02

Sample ID: 17I0112-11

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	83.2		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

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	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.6	30-150		9/16/17 18:07
Decachlorobiphenyl [2]	102	30-150		9/16/17 18:07
Tetrachloro-m-xylene [1]	110	30-150		9/16/17 18:07
Tetrachloro-m-xylene [2]	118	30-150		9/16/17 18:07

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-1 Sampled: 9/5/2017 14:14

Sample ID: 17I0112-12

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

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	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:24
Decachlorobiphenyl [2]	94.8	30-150		9/16/17 18:24
Tetrachloro-m-xylene [1]	96.3	30-150		9/16/17 18:24
Tetrachloro-m-xylene [2]	107	30-150		9/16/17 18:24

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	12	mg/Kg dry	1		CTDEP ETPH	9/11/17	9/12/17 18:57	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.0	50-150		9/12/17 18:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-2 Sampled: 9/5/2017 14:15

Sample ID: 17I0112-13

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	81.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

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	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		9/16/17 18:42
Decachlorobiphenyl [2]	94.3	30-150		9/16/17 18:42
Tetrachloro-m-xylene [1]	87.7	30-150		9/16/17 18:42
Tetrachloro-m-xylene [2]	93.1	30-150		9/16/17 18:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-25-3 Sampled: 9/5/2017 14:16

Sample ID: 17I0112-14

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	72.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

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	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/16/17 18:59
Decachlorobiphenyl [2]	98.6	30-150		9/16/17 18:59
Tetrachloro-m-xylene [1]	95.9	30-150		9/16/17 18:59
Tetrachloro-m-xylene [2]	102	30-150		9/16/17 18:59

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	220	120	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:31	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.4	50-150		9/12/17 22:31

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-1 Sampled: 9/5/2017 14:27

Sample ID: 17I0112-15

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	83.7		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

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	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		9/16/17 19:16
Decachlorobiphenyl [2]	102	30-150		9/16/17 19:16
Tetrachloro-m-xylene [1]	94.2	30-150		9/16/17 19:16
Tetrachloro-m-xylene [2]	89.6	30-150		9/16/17 19:16

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-2 Sampled: 9/5/2017 14:28

Sample ID: 17I0112-16

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	80.8		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

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	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		9/16/17 19:34
Decachlorobiphenyl [2]	80.4	30-150		9/16/17 19:34
Tetrachloro-m-xylene [1]	80.3	30-150		9/16/17 19:34
Tetrachloro-m-xylene [2]	85.3	30-150		9/16/17 19:34

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC15-SO-1-3 Sampled: 9/5/2017 14:29

Sample ID: 17I0112-17

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	82.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 19:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.7	30-150		9/16/17 19:51
Decachlorobiphenyl [2]	89.4	30-150		9/16/17 19:51
Tetrachloro-m-xylene [1]	92.2	30-150		9/16/17 19:51
Tetrachloro-m-xylene [2]	93.5	30-150		9/16/17 19:51

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-1 Sampled: 9/5/2017 14:59

Sample ID: 17I0112-18

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	93.6		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

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	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:09	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.7	30-150		9/16/17 20:09
Decachlorobiphenyl [2]	67.8	30-150		9/16/17 20:09
Tetrachloro-m-xylene [1]	81.2	30-150		9/16/17 20:09
Tetrachloro-m-xylene [2]	96.9	30-150		9/16/17 20:09

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	110	mg/Kg dry	10		CTDEP ETPH	9/11/17	9/12/17 22:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.4	50-150		9/12/17 22:48

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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-2 Sampled: 9/5/2017 15:00

Sample ID: 17I0112-19

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	93.0		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

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	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/10/17	9/16/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.9	30-150		9/16/17 20:26
Decachlorobiphenyl [2]	64.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [1]	70.4	30-150		9/16/17 20:26
Tetrachloro-m-xylene [2]	65.6	30-150		9/16/17 20:26

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-42-3 Sampled: 9/5/2017 15:01

Sample ID: 17I0112-20

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	75.4		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

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	9/11/17 18:49	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/8/17	9/11/17 18:49	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/11/17 18:49
Decachlorobiphenyl [2]	89.8	30-150		9/11/17 18:49
Tetrachloro-m-xylene [1]	83.6	30-150		9/11/17 18:49
Tetrachloro-m-xylene [2]	77.2	30-150		9/11/17 18:49

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: WS-AOC12E-SO-Dup47 Sampled: 9/5/2017 00:00

Sample ID: 17I0112-21

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	76.9		% Wt	1		SM 2540G	9/6/17	9/7/17 8:08	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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	9/12/17	9/14/17 17:06	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:06	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	85.5	30-130		9/14/17 17:06
2-Fluorobiphenyl	80.0	30-130		9/14/17 17:06
p-Terphenyl-d14	80.2	30-130		9/14/17 17:06

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		9/14/17 17:16
Decachlorobiphenyl [2]	74.0	30-150		9/14/17 17:16
Tetrachloro-m-xylene [1]	95.5	30-150		9/14/17 17:16
Tetrachloro-m-xylene [2]	79.0	30-150		9/14/17 17:16

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 61 Sampled: 9/5/2017 12:00

Sample ID: 17I0112-22

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	9/11/17	9/12/17 21:02	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.7	50-150		9/12/17 21:02

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	9/12/17	9/14/17 17:35	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	9/12/17	9/14/17 17:35	CJM

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	86.7	30-130		9/14/17 17:35
2-Fluorobiphenyl	83.4	30-130		9/14/17 17:35
p-Terphenyl-d14	81.6	30-130		9/14/17 17:35

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	9/11/17	9/14/17 17:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		9/14/17 17:28
Decachlorobiphenyl [2]	79.1	30-150		9/14/17 17:28
Tetrachloro-m-xylene [1]	104	30-150		9/14/17 17:28
Tetrachloro-m-xylene [2]	79.6	30-150		9/14/17 17:28

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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: 17I0112

Date Received: 9/5/2017

Field Sample #: Equipment Blank - 62 Sampled: 9/5/2017 12:20

Sample ID: 17I0112-23

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	9/11/17	9/12/17 21:20	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	81.8	50-150		9/12/17 21:20

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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
17I0112-01 [WS-AOC12E-SO-5-1]	B185921	30.0	1.00	09/11/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185921	30.0	1.00	09/11/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185921	30.0	2.00	09/11/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185921	30.0	1.00	09/11/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185921	30.0	1.00	09/11/17
17I0112-15 [WS-AOC15-SO-1-1]	B185921	30.0	1.00	09/11/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185921	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185892	1000	1.00	09/11/17
17I0112-23 [Equipment Blank - 62]	B185892	1000	1.00	09/11/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185594	09/06/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185594	09/06/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185594	09/06/17
17I0112-04 [WS-AOC12E-SO-17-2]	B185594	09/06/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185594	09/06/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185594	09/06/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185594	09/06/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185594	09/06/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185594	09/06/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185594	09/06/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185594	09/06/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185594	09/06/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185594	09/06/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185594	09/06/17
17I0112-15 [WS-AOC15-SO-1-1]	B185594	09/06/17
17I0112-16 [WS-AOC15-SO-1-2]	B185594	09/06/17
17I0112-17 [WS-AOC15-SO-1-3]	B185594	09/06/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185594	09/06/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185594	09/06/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185594	09/06/17
17I0112-21 [WS-AOC12E-SO-Dup47]	B185594	09/06/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-21 [WS-AOC12E-SO-Dup47]	B185830	10.0	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-01 [WS-AOC12E-SO-5-1]	B185867	10.0	10.0	09/10/17
17I0112-02 [WS-AOC12E-SO-5-2]	B185867	10.0	10.0	09/10/17
17I0112-03 [WS-AOC12E-SO-17-1]	B185867	10.0	10.0	09/10/17

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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
17I0112-04 [WS-AOC12E-SO-17-2]	B185867	10.0	10.0	09/10/17
17I0112-05 [WS-AOC12E-SO-17-3]	B185867	10.1	10.0	09/10/17
17I0112-06 [WS-AOC12E-SO-35-1]	B185867	10.1	10.0	09/10/17
17I0112-07 [WS-AOC12E-SO-35-2]	B185867	10.1	10.0	09/10/17
17I0112-08 [WS-AOC12E-SO-35-3]	B185867	10.0	10.0	09/10/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185867	10.2	10.0	09/10/17
17I0112-10 [WS-AOC12E-SO-21-2]	B185867	10.2	10.0	09/10/17
17I0112-11 [WS-AOC12E-SO-21-3]	B185867	10.2	10.0	09/10/17
17I0112-12 [WS-AOC12E-SO-25-1]	B185867	10.4	10.0	09/10/17
17I0112-13 [WS-AOC12E-SO-25-2]	B185867	10.0	10.0	09/10/17
17I0112-14 [WS-AOC12E-SO-25-3]	B185867	10.5	10.0	09/10/17
17I0112-15 [WS-AOC15-SO-1-1]	B185867	10.1	10.0	09/10/17
17I0112-16 [WS-AOC15-SO-1-2]	B185867	10.0	10.0	09/10/17
17I0112-17 [WS-AOC15-SO-1-3]	B185867	10.0	10.0	09/10/17
17I0112-18 [WS-AOC12E-SO-42-1]	B185867	10.0	10.0	09/10/17
17I0112-19 [WS-AOC12E-SO-42-2]	B185867	10.1	10.0	09/10/17
17I0112-20 [WS-AOC12E-SO-42-3]	B185867	10.4	10.0	09/10/17

Prep Method: SW-846 3510C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185890	1000	10.0	09/11/17
17I0112-23 [Equipment Blank - 62]	B185890	1000	10.0	09/11/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0112-07 [WS-AOC12E-SO-35-2]	B185922	30.0	2.00	09/11/17
17I0112-09 [WS-AOC12E-SO-21-1]	B185922	30.0	1.00	09/11/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17I0112-22 [Equipment Blank - 61]	B185977	1000	1.00	09/12/17
17I0112-23 [Equipment Blank - 62]	B185977	1000	1.00	09/12/17

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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 B185922 - SW-846 3546										
Blank (B185922-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17						
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	*2.10*		mg/Kg wet	3.33		63.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.35*		mg/Kg wet	3.33		70.6	30-130			
Surrogate: p-Terphenyl-d14	*2.99*		mg/Kg wet	3.33		89.8	30-130			
LCS (B185922-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140			
Acenaphthylene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140			
Benzo(a)anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(a)pyrene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Benzo(b)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(g,h,i)perylene	0.926	0.17	mg/Kg wet	1.67		55.6	40-140			
Benzo(k)fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140			
Chrysene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Indeno(1,2,3-cd)pyrene	1.02	0.17	mg/Kg wet	1.67		60.9	40-140			
2-Methylnaphthalene	1.06	0.17	mg/Kg wet	1.67		63.4	40-140			
Naphthalene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140			
Pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: p-Terphenyl-d14	*2.62*		mg/Kg wet	3.33		78.7	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 B185922 - SW-846 3546										
LCS Dup (B185922-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	8.16	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	8.07	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	6.77	30	
Benzo(a)anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	7.16	30	
Benzo(a)pyrene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	6.34	30	
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	8.88	30	
Benzo(g,h,i)perylene	1.07	0.17	mg/Kg wet	1.67		64.3	40-140	14.5	30	
Benzo(k)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	8.21	30	
Chrysene	1.13	0.17	mg/Kg wet	1.67		67.6	40-140	7.42	30	
Dibenz(a,h)anthracene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	6.94	30	
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140	7.20	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	7.58	30	
Indeno(1,2,3-cd)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	7.31	30	
2-Methylnaphthalene	1.18	0.17	mg/Kg wet	1.67		71.0	40-140	11.3	30	
Naphthalene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	10.0	30	
Phenanthrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	8.74	30	
Pyrene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140	9.00	30	
Surrogate: Nitrobenzene-d5	*2.46*		mg/Kg wet	3.33		73.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.69*		mg/Kg wet	3.33		80.6	30-130			
Surrogate: p-Terphenyl-d14	*2.85*		mg/Kg wet	3.33		85.5	30-130			
Batch B185977 - SW-846 3510C										
Blank (B185977-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17						
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	*87.6*		µg/L	100		87.6	30-130			
Surrogate: 2-Fluorobiphenyl	*85.2*		µg/L	100		85.2	30-130			
Surrogate: p-Terphenyl-d14	*82.4*		µg/L	100		82.4	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 B185977 - SW-846 3510C										
LCS (B185977-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	44.1	7.5	µg/L	50.0		88.2	40-140			
Acenaphthylene (SIM)	43.3	7.5	µg/L	50.0		86.6	40-140			
Anthracene (SIM)	46.5	5.0	µg/L	50.0		93.0	40-140			
Benzo(a)anthracene (SIM)	46.9	1.2	µg/L	50.0		93.8	40-140			
Benzo(a)pyrene (SIM)	48.5	2.5	µg/L	50.0		97.0	40-140			
Benzo(b)fluoranthene (SIM)	48.3	1.2	µg/L	50.0		96.6	40-140			
Benzo(g,h,i)perylene (SIM)	46.6	12	µg/L	50.0		93.3	40-140			
Benzo(k)fluoranthene (SIM)	46.8	5.0	µg/L	50.0		93.5	40-140			
Chrysene (SIM)	46.8	5.0	µg/L	50.0		93.6	40-140			
Dibenz(a,h)anthracene (SIM)	45.5	5.0	µg/L	50.0		91.0	40-140			
Fluoranthene (SIM)	45.6	12	µg/L	50.0		91.2	40-140			
Fluorene (SIM)	44.5	25	µg/L	50.0		89.0	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	46.9	5.0	µg/L	50.0		93.8	40-140			
2-Methylnaphthalene (SIM)	41.6	25	µg/L	50.0		83.2	40-140			
Naphthalene (SIM)	40.2	25	µg/L	50.0		80.4	40-140			
Phenanthrene (SIM)	45.1	1.2	µg/L	50.0		90.2	40-140			
Pyrene (SIM)	46.9	25	µg/L	50.0		93.8	40-140			
Surrogate: Nitrobenzene-d5	*92.6*		µg/L	100		92.6	30-130			
Surrogate: 2-Fluorobiphenyl	*93.5*		µg/L	100		93.5	30-130			
Surrogate: p-Terphenyl-d14	*74.5*		µg/L	100		74.5	30-130			
LCS Dup (B185977-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17						
Acenaphthene (SIM)	48.9	7.5	µg/L	50.0		97.8	40-140	10.2	20	
Acenaphthylene (SIM)	47.9	7.5	µg/L	50.0		95.8	40-140	10.0	20	
Anthracene (SIM)	51.2	5.0	µg/L	50.0		102	40-140	9.72	20	
Benzo(a)anthracene (SIM)	51.8	1.2	µg/L	50.0		104	40-140	10.0	20	
Benzo(a)pyrene (SIM)	53.8	2.5	µg/L	50.0		108	40-140	10.4	20	
Benzo(b)fluoranthene (SIM)	54.4	1.2	µg/L	50.0		109	40-140	12.0	20	
Benzo(g,h,i)perylene (SIM)	51.4	12	µg/L	50.0		103	40-140	9.59	20	
Benzo(k)fluoranthene (SIM)	52.5	5.0	µg/L	50.0		105	40-140	11.6	20	
Chrysene (SIM)	51.9	5.0	µg/L	50.0		104	40-140	10.2	20	
Dibenz(a,h)anthracene (SIM)	50.3	5.0	µg/L	50.0		101	40-140	10.0	20	
Fluoranthene (SIM)	49.9	12	µg/L	50.0		99.8	40-140	9.11	20	
Fluorene (SIM)	48.9	25	µg/L	50.0		97.8	40-140	9.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	51.4	5.0	µg/L	50.0		103	40-140	9.21	20	‡
2-Methylnaphthalene (SIM)	45.6	25	µg/L	50.0		91.3	40-140	9.28	20	
Naphthalene (SIM)	44.4	25	µg/L	50.0		88.8	40-140	9.93	20	
Phenanthrene (SIM)	50.4	1.2	µg/L	50.0		101	40-140	11.0	20	
Pyrene (SIM)	53.0	25	µg/L	50.0		106	40-140	12.2	20	
Surrogate: Nitrobenzene-d5	*98.4*		µg/L	100		98.4	30-130			
Surrogate: 2-Fluorobiphenyl	*99.8*		µg/L	100		99.8	30-130			
Surrogate: p-Terphenyl-d14	*86.0*		µg/L	100		86.0	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 B185890 - SW-846 3510C										
Blank (B185890-BLK1)				Prepared: 09/11/17 Analyzed: 09/14/17						
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	*1.96*		µg/L	2.00		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.76*		µg/L	2.00		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*2.18*		µg/L	2.00		109	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.68*		µg/L	2.00		83.9	30-150			
LCS (B185890-BS1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		99.5	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.47	0.20	µg/L	0.500		93.7	40-140			
Aroclor-1260 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Surrogate: Decachlorobiphenyl	*2.02*		µg/L	2.00		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.80*		µg/L	2.00		89.8	30-150			
Surrogate: Tetrachloro-m-xylene	*2.12*		µg/L	2.00		106	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.63*		µg/L	2.00		81.6	30-150			
LCS Dup (B185890-BSD1)				Prepared: 09/11/17 Analyzed: 09/14/17						
Aroclor-1016	0.50	0.20	µg/L	0.500		100	40-140	0.547	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	0.515	20	
Aroclor-1260	0.46	0.20	µg/L	0.500		91.9	40-140	1.95	20	
Aroclor-1260 [2C]	0.50	0.20	µg/L	0.500		100	40-140	2.01	20	
Surrogate: Decachlorobiphenyl	*1.85*		µg/L	2.00		92.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*1.67*		µg/L	2.00		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*2.13*		µg/L	2.00		107	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*1.65*		µg/L	2.00		82.3	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 B185830 - SW-846 3540C										
Blank (B185830-BLK1)				Prepared: 09/08/17 Analyzed: 09/10/17						
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	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		77.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.3	30-150			
LCS (B185830-BS1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.9	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.142*		mg/Kg wet	0.200		71.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B185830-BSD1)				Prepared: 09/08/17 Analyzed: 09/10/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	5.57	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	7.04	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	3.31	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6	40-140	6.84	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg wet	0.200		91.0	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 B185867 - SW-846 3540C										
Blank (B185867-BLK1)				Prepared: 09/10/17 Analyzed: 09/16/17						
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	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.155*		mg/Kg wet	0.200		77.3	30-150			
LCS (B185867-BS1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		99.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg wet	0.200		74.0	30-150			
LCS Dup (B185867-BSD1)				Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.8	40-140	7.09	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.3	40-140	5.16	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140	2.21	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.3	40-140	1.68	30	
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.151*		mg/Kg wet	0.200		75.4	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 B185867 - SW-846 3540C										
Matrix Spike (B185867-MS1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.19	0.090	mg/Kg dry	0.225	ND	84.1	40-140			
Aroclor-1016 [2C]	0.18	0.090	mg/Kg dry	0.225	ND	81.5	40-140			
Aroclor-1260	0.14	0.090	mg/Kg dry	0.225	ND	62.6	40-140			
Aroclor-1260 [2C]	0.15	0.090	mg/Kg dry	0.225	ND	65.7	40-140			
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg dry	0.225		70.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg dry	0.225		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.225		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.203*		mg/Kg dry	0.225		90.2	30-150			
Matrix Spike Dup (B185867-MSD1)		**Source: 17I0112-05**		Prepared: 09/10/17 Analyzed: 09/16/17						
Aroclor-1016	0.24	0.091	mg/Kg dry	0.228	ND	106	40-140	23.7	50	
Aroclor-1016 [2C]	0.22	0.091	mg/Kg dry	0.228	ND	96.4	40-140	17.7	50	
Aroclor-1260	0.17	0.091	mg/Kg dry	0.228	ND	76.4	40-140	20.8	50	
Aroclor-1260 [2C]	0.18	0.091	mg/Kg dry	0.228	ND	80.3	40-140	21.0	50	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg dry	0.228		84.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg dry	0.228		91.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.224*		mg/Kg dry	0.228		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.239*		mg/Kg dry	0.228		105	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 B185892 - SW-846 3510C											
Blank (B185892-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	0.075	mg/L								
Surrogate: o-Terphenyl	*0.0784*		mg/L	0.100		78.4		50-150			
LCS (B185892-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.633	0.075	mg/L	1.00		63.3		60-120			
Surrogate: o-Terphenyl	*0.0709*		mg/L	0.100		70.9		50-150			
LCS Dup (B185892-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	0.663	0.075	mg/L	1.00		66.3		60-120	4.71	30	
Surrogate: o-Terphenyl	*0.0745*		mg/L	0.100		74.5		50-150			
Batch B185921 - SW-846 3546											
Blank (B185921-BLK1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.52*		mg/Kg wet	3.33		75.6		50-150			
LCS (B185921-BS1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	20.3	10	mg/Kg wet	33.3		61.0		60-120			
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.0		50-150			
LCS Dup (B185921-BSD1)				Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	21.6	10	mg/Kg wet	33.3		64.8		60-120	6.10	30	
Surrogate: o-Terphenyl	*2.51*		mg/Kg wet	3.33		75.4		50-150			
Matrix Spike (B185921-MS1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	242	56	mg/Kg dry	37.3	261	**-50.1**	*	50-150			MS-07A
Surrogate: o-Terphenyl	*2.44*		mg/Kg dry	3.73		65.3		50-150			
Matrix Spike Dup (B185921-MSD1)	**Source: 17I0112-03**			Prepared: 09/11/17 Analyzed: 09/12/17							
CT ETPH	259	56	mg/Kg dry	37.3	261	**-5.38**	*	50-150	6.66	30	MS-07A
Surrogate: o-Terphenyl	*2.47*		mg/Kg dry	3.73		66.2		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 B185594 - % Solids										
Duplicate (B185594-DUP5)		**Source: 17I0112-01**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	78.8		% Wt		81.9			3.86	20	
Duplicate (B185594-DUP6)		**Source: 17I0112-02**		Prepared: 09/06/17 Analyzed: 09/07/17						
% Solids	81.2		% Wt		83.0			2.19	20	

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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-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
RL-12	Elevated reporting limit due to matrix interference.

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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 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 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 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	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(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

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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	PCBs (Soxhlet)	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-5-1	9/5/17	1330		X	S	U	X	X				
2	WS-AOC12E-SO-5-2		1331					X					
3	WS-AOC12E-SO-17-1		1340					X	X				
4	WS-AOC12E-SO-17-2		1341					X					
5	WS-AOC12E-SO-17-3		1342					X					
6	WS-AOC12E-SO-35-1		1403					X	X				
7	WS-AOC12E-SO-35-2		1404					X		X			
8	WS-AOC12E-SO-35-3		1405					X					
9	WS-AOC12E-SO-21-1		1400					X		X			
10	WS-AOC12E-SO-21-2		1401					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.

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) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature) 9/5/17	Date/Time: 1640
Received by: (signature) 9/5/17	Date/Time: 1640
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

Table of Contents

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Email: info@contestlabs.com

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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)	Kepone	PAH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12-SO-21-3	9/5/17	1402		X	S	U	X					
12	WS-AOC12E-SO-25-1		1414					X					
13	WS-AOC12E-SO-25-2		1415					X	X				
14	WS-AOC12E-SO-25-3		1416					X					
15	WS-AOC15-SO-1-1		1427					X	X				
16	WS-AOC15-SO-1-2		1428					X					
17	WS-AOC15-SO-1-3		1429					X					
18	WS-AOC12E-SO-42-1		1459					X					
19	WS-AOC12E-SO-42-2		1500					X	X				
20	WS-AOC12E-SO-42-3		1501					X					

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) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 4:40
Received by: (signature) 3-3	Date/Time: 9/5/17 1640
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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1710112

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

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)	ETPH	PAH	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOCIZE-SO-Dup47	9/5/17	—		X	S	U	X					
22	Equipment Blank-61	↓	1200		X	W	U	X	X	X			
23	Equipment Blank-62	↓	1220		X	W	U	X	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.

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) 9/5/17	Date/Time:
Received by: (signature) 9/5/17	Date/Time: 1515
Relinquished by: (signature)	Date/Time: 9/5/17 1740
Received by: (signature) 9/5/17	Date/Time: 1640
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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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 9/5/17 Time 1640

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 - 3.3, 3.7
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? 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.	6	1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	21
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\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\A0912006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	501479	538055	-7
c - 10	1.64	508127	538055	-6
c - 12	2.37	526410	538055	-2
c - 14	3.05	540261	538055	0
c - 16	3.65	553396	538055	3
c - 18	4.29	547821	538055	2
o-Terphenyl	4.57	606869	538055	
c - 20	4.89	555426	538055	3
c - 22	5.39	565503	538055	5
c - 24	5.83	528778	538055	-2
c - 26	6.23	558205	538055	4
c - 28	6.59	551574	538055	3
c - 30	6.92	544804	538055	1
c - 32	7.24	528926	538055	-2
c - 34	7.53	529626	538055	-2
c - 36	7.88	530490	538055	-1

* One compound allowed %D <= 50%

Samples
17H1672-02
17H1672-03
17H1672-04
17H1672-08
17H1672-12
17H1672-14
17H1672-16
17I0112-13
17H1672-05

D:\HPCHEM\1\DATA\A091217\A0912038.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/12/17
Data File Name	A0912038.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	500546	539610	-7
c - 10	1.64	508067	539610	-6
c - 12	2.37	526540	539610	-2
c - 14	3.04	540306	539610	0
c - 16	3.65	554002	539610	3
c - 18	4.29	549170	539610	2
o-Terphenyl	4.57	609352	539610	
c - 20	4.89	557450	539610	3
c - 22	5.39	567557	539610	5
c - 24	5.83	530516	539610	-2
c - 26	6.23	560292	539610	4
c - 28	6.59	553131	539610	3
c - 30	6.92	548526	539610	2
c - 32	7.23	532844	539610	-1
c - 34	7.53	532454	539610	-1
c - 36	7.87	532753	539610	-1

* One compound allowed %D <= 50%

Samples
17I0112-06
17I0112-03
17I0112-10
17I0112-15
17I0112-19
17I0297-01
17H1672-01
17H1672-09
17I0112-01

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: 17I0112

Laboratory Sample ID(s):
17I0112-01 thru 17I0112-23

Sample Date(s):
09/05/2017

List RCP Methods Used:
CTDEP ETPH, 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:** **09/18/17**

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 19, 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: 17I0172

Enclosed are results of analyses for samples received by the laboratory on September 6, 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: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0172

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-AOC14-SE-64	17I0172-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-65	17I0172-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-66	17I0172-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-67	17I0172-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-68	17I0172-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-69	17I0172-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-70	17I0172-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-SE-71	17I0172-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC14-CO-1	17I0172-09	Product/Solid		SW-846 8082A	
WS-AOC14-CO-64	17I0172-10	Product/Solid		SW-846 8082A	
WS-AOC14-CO-65	17I0172-11	Product/Solid		SW-846 8082A	
WS-AOC14-CO-66	17I0172-12	Product/Solid		SW-846 8082A	
WS-AOC14-CO-67	17I0172-13	Product/Solid		SW-846 8082A	
WS-AOC14-CO-68	17I0172-14	Product/Solid		SW-846 8082A	
WS-AOC14-CO-69	17I0172-15	Product/Solid		SW-846 8082A	
WS-AOC14-CO-70	17I0172-16	Product/Solid		SW-846 8082A	
WS-AOC14-CO-71	17I0172-17	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.

SW-846 8082A

Qualifications:

DL-03

Elevated reporting limit due to matrix.

Analyte & Samples(s) Qualified:

17I0172-15[WS-AOC14-CO-69], 17I0172-17[WS-AOC14-CO-71]

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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-64 Sampled: 9/6/2017 08:30

Sample ID: 17I0172-01

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	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.6	30-150		9/18/17 14:36
Decachlorobiphenyl [2]	99.7	30-150		9/18/17 14:36
Tetrachloro-m-xylene [1]	75.9	30-150		9/18/17 14:36
Tetrachloro-m-xylene [2]	71.2	30-150		9/18/17 14:36

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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-64 Sampled: 9/6/2017 08:30

Sample ID: 17I0172-01

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	86.9		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-65 Sampled: 9/6/2017 08:40

Sample ID: 17I0172-02

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	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1254 [2]	0.13	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 14:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/18/17 14:49
Decachlorobiphenyl [2]	80.3	30-150		9/18/17 14:49
Tetrachloro-m-xylene [1]	77.5	30-150		9/18/17 14:49
Tetrachloro-m-xylene [2]	80.8	30-150		9/18/17 14:49

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-65 Sampled: 9/6/2017 08:40

Sample ID: 17I0172-02

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	85.6		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-66 Sampled: 9/6/2017 08:50

Sample ID: 17I0172-03

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	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1248 [1]	0.44	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1254 [2]	0.51	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1260 [2]	0.25	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	55.1	30-150		9/18/17 15:01
Decachlorobiphenyl [2]	59.2	30-150		9/18/17 15:01
Tetrachloro-m-xylene [1]	59.5	30-150		9/18/17 15:01
Tetrachloro-m-xylene [2]	64.8	30-150		9/18/17 15:01

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-66 Sampled: 9/6/2017 08:50

Sample ID: 17I0172-03

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	55.0		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-67 Sampled: 9/6/2017 09:00

Sample ID: 17I0172-04

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	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1248 [1]	0.32	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1254 [2]	0.39	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1260 [1]	0.24	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		9/18/17 15:14
Decachlorobiphenyl [2]	80.2	30-150		9/18/17 15:14
Tetrachloro-m-xylene [1]	71.8	30-150		9/18/17 15:14
Tetrachloro-m-xylene [2]	73.7	30-150		9/18/17 15:14

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-67 Sampled: 9/6/2017 09:00

Sample ID: 17I0172-04

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	62.6		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-68 Sampled: 9/6/2017 09:10

Sample ID: 17I0172-05

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	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1248 [1]	0.19	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1254 [2]	0.35	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1260 [1]	0.26	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.3	30-150		9/18/17 15:26
Decachlorobiphenyl [2]	86.7	30-150		9/18/17 15:26
Tetrachloro-m-xylene [1]	79.1	30-150		9/18/17 15:26
Tetrachloro-m-xylene [2]	82.6	30-150		9/18/17 15:26

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-68 Sampled: 9/6/2017 09:10

Sample ID: 17I0172-05

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	83.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-69 Sampled: 9/6/2017 09:20

Sample ID: 17I0172-06

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	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1248 [1]	0.56	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1254 [2]	0.69	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1260 [1]	0.35	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/18/17 15:39
Decachlorobiphenyl [2]	77.7	30-150		9/18/17 15:39
Tetrachloro-m-xylene [1]	73.2	30-150		9/18/17 15:39
Tetrachloro-m-xylene [2]	73.5	30-150		9/18/17 15:39

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-69 Sampled: 9/6/2017 09:20

Sample ID: 17I0172-06

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	71.8		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-70 Sampled: 9/6/2017 09:30

Sample ID: 17I0172-07

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	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1248 [1]	0.32	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1254 [2]	0.46	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1260 [2]	0.25	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 15:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.2	30-150		9/18/17 15:52
Decachlorobiphenyl [2]	90.7	30-150		9/18/17 15:52
Tetrachloro-m-xylene [1]	73.9	30-150		9/18/17 15:52
Tetrachloro-m-xylene [2]	74.4	30-150		9/18/17 15:52

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-70 Sampled: 9/6/2017 09:30

Sample ID: 17I0172-07

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	57.4		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-71 Sampled: 9/6/2017 09:40

Sample ID: 17I0172-08

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	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1248 [1]	0.62	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1254 [2]	0.62	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1260 [1]	0.28	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		9/18/17 16:04
Decachlorobiphenyl [2]	88.7	30-150		9/18/17 16:04
Tetrachloro-m-xylene [1]	72.4	30-150		9/18/17 16:04
Tetrachloro-m-xylene [2]	74.5	30-150		9/18/17 16:04

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-SE-71 Sampled: 9/6/2017 09:40

Sample ID: 17I0172-08

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	47.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-1 Sampled: 9/6/2017 08:20

Sample ID: 17I0172-09

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	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1221 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1232 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1242 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1248 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1254 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1260 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1262 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG
Aroclor-1268 [1]	ND	0.094	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.1	30-150		9/14/17 17:22
Decachlorobiphenyl [2]	82.4	30-150		9/14/17 17:22
Tetrachloro-m-xylene [1]	83.4	30-150		9/14/17 17:22
Tetrachloro-m-xylene [2]	83.6	30-150		9/14/17 17:22

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-64 Sampled: 9/6/2017 08:35

Sample ID: 17I0172-10

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	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1221 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1232 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1242 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1248 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1254 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1260 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1262 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG
Aroclor-1268 [1]	ND	0.098	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:35	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.6	30-150		9/14/17 17:35
Decachlorobiphenyl [2]	73.8	30-150		9/14/17 17:35
Tetrachloro-m-xylene [1]	84.1	30-150		9/14/17 17:35
Tetrachloro-m-xylene [2]	85.6	30-150		9/14/17 17:35

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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-65 Sampled: 9/6/2017 08:45

Sample ID: 17I0172-11

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	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1221 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1232 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1242 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1248 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1254 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1260 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1262 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG
Aroclor-1268 [1]	ND	0.099	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 17:47	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.9	30-150		9/14/17 17:47
Decachlorobiphenyl [2]	73.1	30-150		9/14/17 17:47
Tetrachloro-m-xylene [1]	79.1	30-150		9/14/17 17:47
Tetrachloro-m-xylene [2]	80.6	30-150		9/14/17 17:47

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-66 Sampled: 9/6/2017 08:55

Sample ID: 17I0172-12

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	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.0	30-150		9/14/17 18:00
Decachlorobiphenyl [2]	72.2	30-150		9/14/17 18:00
Tetrachloro-m-xylene [1]	79.4	30-150		9/14/17 18:00
Tetrachloro-m-xylene [2]	80.8	30-150		9/14/17 18:00

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-67 Sampled: 9/6/2017 09:05

Sample ID: 17I0172-13

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	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1221 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1232 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1242 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1248 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1254 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1260 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1262 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG
Aroclor-1268 [1]	ND	0.085	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:13	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		9/14/17 18:13
Decachlorobiphenyl [2]	71.5	30-150		9/14/17 18:13
Tetrachloro-m-xylene [1]	76.3	30-150		9/14/17 18:13
Tetrachloro-m-xylene [2]	77.3	30-150		9/14/17 18:13

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-68 Sampled: 9/6/2017 09:15

Sample ID: 17I0172-14

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	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1221 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1232 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1242 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1248 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1254 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1260 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1262 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG
Aroclor-1268 [1]	ND	0.087	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:25	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.4	30-150		9/14/17 18:25
Decachlorobiphenyl [2]	80.6	30-150		9/14/17 18:25
Tetrachloro-m-xylene [1]	83.0	30-150		9/14/17 18:25
Tetrachloro-m-xylene [2]	83.9	30-150		9/14/17 18:25

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-69 Sampled: 9/6/2017 09:25

Sample ID: 17I0172-15

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1221 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1232 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1242 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1248 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1254 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1260 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1262 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG
Aroclor-1268 [1]	ND	0.97	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 18:38	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.4	30-150		9/14/17 18:38
Decachlorobiphenyl [2]	83.6	30-150		9/14/17 18:38
Tetrachloro-m-xylene [1]	77.3	30-150		9/14/17 18:38
Tetrachloro-m-xylene [2]	83.8	30-150		9/14/17 18:38

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-70 Sampled: 9/6/2017 09:35

Sample ID: 17I0172-16

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	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1260 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg	1		SW-846 8082A	9/8/17	9/14/17 18:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		9/14/17 18:51
Decachlorobiphenyl [2]	73.9	30-150		9/14/17 18:51
Tetrachloro-m-xylene [1]	81.3	30-150		9/14/17 18:51
Tetrachloro-m-xylene [2]	80.8	30-150		9/14/17 18:51

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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: 17I0172

Date Received: 9/6/2017

Field Sample #: WS-AOC14-CO-71 Sampled: 9/6/2017 09:45

Sample ID: 17I0172-17

Sample Matrix: Product/Solid

Sample Flags: DL-03

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1221 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1232 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1242 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1248 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1254 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1260 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1262 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG
Aroclor-1268 [1]	ND	0.93	mg/Kg	10		SW-846 8082A	9/8/17	9/14/17 19:03	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.4	30-150		9/14/17 19:03
Decachlorobiphenyl [2]	86.2	30-150		9/14/17 19:03
Tetrachloro-m-xylene [1]	86.1	30-150		9/14/17 19:03
Tetrachloro-m-xylene [2]	91.4	30-150		9/14/17 19:03

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0172-01 [WS-AOC14-SE-64]	B185999	09/12/17
17I0172-02 [WS-AOC14-SE-65]	B185999	09/12/17
17I0172-03 [WS-AOC14-SE-66]	B185999	09/12/17
17I0172-04 [WS-AOC14-SE-67]	B185999	09/12/17
17I0172-05 [WS-AOC14-SE-68]	B185999	09/12/17
17I0172-06 [WS-AOC14-SE-69]	B185999	09/12/17
17I0172-07 [WS-AOC14-SE-70]	B185999	09/12/17
17I0172-08 [WS-AOC14-SE-71]	B185999	09/12/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0172-09 [WS-AOC14-CO-1]	B185833	2.13	10.0	09/08/17
17I0172-10 [WS-AOC14-CO-64]	B185833	2.04	10.0	09/08/17
17I0172-11 [WS-AOC14-CO-65]	B185833	2.03	10.0	09/08/17
17I0172-12 [WS-AOC14-CO-66]	B185833	2.09	10.0	09/08/17
17I0172-13 [WS-AOC14-CO-67]	B185833	2.34	10.0	09/08/17
17I0172-14 [WS-AOC14-CO-68]	B185833	2.29	10.0	09/08/17
17I0172-15 [WS-AOC14-CO-69]	B185833	2.07	10.0	09/08/17
17I0172-16 [WS-AOC14-CO-70]	B185833	2.20	10.0	09/08/17
17I0172-17 [WS-AOC14-CO-71]	B185833	2.15	10.0	09/08/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0172-01 [WS-AOC14-SE-64]	B185991	10.0	10.0	09/12/17
17I0172-02 [WS-AOC14-SE-65]	B185991	10.0	10.0	09/12/17
17I0172-03 [WS-AOC14-SE-66]	B185991	10.0	10.0	09/12/17
17I0172-04 [WS-AOC14-SE-67]	B185991	10.0	10.0	09/12/17
17I0172-05 [WS-AOC14-SE-68]	B185991	10.0	10.0	09/12/17
17I0172-06 [WS-AOC14-SE-69]	B185991	10.0	10.0	09/12/17
17I0172-07 [WS-AOC14-SE-70]	B185991	10.0	10.0	09/12/17
17I0172-08 [WS-AOC14-SE-71]	B185991	10.0	10.0	09/12/17

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

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 B185833 - SW-846 3540C										
Blank (B185833-BLK1)				Prepared: 09/08/17 Analyzed: 09/14/17						
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	*0.931*		mg/Kg	1.00		93.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.892*		mg/Kg	1.00		89.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.922*		mg/Kg	1.00		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.926*		mg/Kg	1.00		92.6	30-150			
LCS (B185833-BS1)				Prepared: 09/08/17 Analyzed: 09/14/17						
Aroclor-1016	0.90	0.10	mg/Kg	1.00		89.7	40-140			
Aroclor-1016 [2C]	0.84	0.10	mg/Kg	1.00		83.7	40-140			
Aroclor-1260	0.83	0.10	mg/Kg	1.00		82.6	40-140			
Aroclor-1260 [2C]	0.75	0.10	mg/Kg	1.00		75.2	40-140			
Surrogate: Decachlorobiphenyl	*0.962*		mg/Kg	1.00		96.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.928*		mg/Kg	1.00		92.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.915*		mg/Kg	1.00		91.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.927*		mg/Kg	1.00		92.7	30-150			
LCS Dup (B185833-BSD1)				Prepared: 09/08/17 Analyzed: 09/14/17						
Aroclor-1016	0.92	0.10	mg/Kg	1.00		91.9	40-140	2.46	30	
Aroclor-1016 [2C]	0.88	0.10	mg/Kg	1.00		88.0	40-140	4.96	30	
Aroclor-1260	0.83	0.10	mg/Kg	1.00		82.6	40-140	0.0660	30	
Aroclor-1260 [2C]	0.76	0.10	mg/Kg	1.00		76.0	40-140	1.06	30	
Surrogate: Decachlorobiphenyl	*0.960*		mg/Kg	1.00		96.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.925*		mg/Kg	1.00		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.904*		mg/Kg	1.00		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.909*		mg/Kg	1.00		90.9	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 B185991 - SW-846 3540C										
Blank (B185991-BLK1)				Prepared: 09/12/17 Analyzed: 09/18/17						
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	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
LCS (B185991-BS1)				Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			
LCS Dup (B185991-BSD1)				Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	4.07	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	3.01	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	3.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.61	30	
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.200		83.0	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 B185991 - SW-846 3540C										
Matrix Spike (B185991-MS1)		**Source: 17I0172-01**		Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.18	0.092	mg/Kg dry	0.230	ND	79.2	40-140			
Aroclor-1016 [2C]	0.20	0.092	mg/Kg dry	0.230	ND	86.6	40-140			
Aroclor-1260	0.16	0.092	mg/Kg dry	0.230	ND	70.0	40-140			
Aroclor-1260 [2C]	0.14	0.092	mg/Kg dry	0.230	ND	62.8	40-140			
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.230		69.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.160*		mg/Kg dry	0.230		69.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.160*		mg/Kg dry	0.230		69.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg dry	0.230		77.2	30-150			
Matrix Spike Dup (B185991-MSD1)		**Source: 17I0172-01**		Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.092	mg/Kg dry	0.230	ND	84.6	40-140	6.60	50	
Aroclor-1016 [2C]	0.22	0.092	mg/Kg dry	0.230	ND	93.8	40-140	7.94	50	
Aroclor-1260	0.18	0.092	mg/Kg dry	0.230	ND	78.8	40-140	11.9	50	
Aroclor-1260 [2C]	0.20	0.092	mg/Kg dry	0.230	ND	85.1	40-140	30.2	50	
Surrogate: Decachlorobiphenyl	*0.175*		mg/Kg dry	0.230		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg dry	0.230		76.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg dry	0.230		75.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.193*		mg/Kg dry	0.230		84.0	30-150			

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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 B185999 - % Solids										
Duplicate (B185999-DUP4)		**Source: 17I0172-01**		Prepared: 09/12/17 Analyzed: 09/13/17						
% Solids	85.8		% Wt		86.9			1.27	20	
Duplicate (B185999-DUP5)		**Source: 17I0172-02**		Prepared: 09/12/17 Analyzed: 09/13/17						
% Solids	81.6		% Wt		85.6			4.78	20	
Duplicate (B185999-DUP6)		**Source: 17I0172-03**		Prepared: 09/12/17 Analyzed: 09/13/17						
% Solids	61.4		% Wt		55.0			11.0	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-65

Lab Sample ID: 17I0172-02

Date(s) Analyzed: 09/18/2017 09/18/2017

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	0.11	
	2	0.000	-0.030	0.030	0.13	16.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-66

Lab Sample ID: 17I0172-03 Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.40	9.5
Aroclor-1254	1	0.000	-0.030	0.030	0.41	
	2	0.000	-0.030	0.030	0.51	21.7
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.25	8.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-67

Lab Sample ID: 17I0172-04

Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.26	20.7
Aroclor-1254	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.39	13.7
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-68

Lab Sample ID: 17I0172-05 Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.16	17.1
Aroclor-1254	1	0.000	-0.030	0.030	0.29	
	2	0.000	-0.030	0.030	0.35	18.8
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.25	7.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-69

Lab Sample ID: 17I0172-06 Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.56	
	2	0.000	-0.030	0.030	0.48	15.4
Aroclor-1254	1	0.000	-0.030	0.030	0.59	
	2	0.000	-0.030	0.030	0.69	15.6
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.33	5.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-70

Lab Sample ID: 17I0172-07

Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.27	20.0
Aroclor-1254	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.46	30.0
Aroclor-1260	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.25	4.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC14-SE-71

Lab Sample ID: 17I0172-08 Date(s) Analyzed: 09/18/2017 09/18/2017

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-1248	1	0.000	-0.030	0.030	0.62	
	2	0.000	-0.030	0.030	0.56	10.2
Aroclor-1254	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.62	31.8
Aroclor-1260	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.26	7.4

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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-03	Elevated reporting limit due to matrix.

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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
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

17I0172

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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 Bartkiewicz~~ me/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 via Soxhlet | | |

17I0172

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

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:	[redacted]me/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 via Soxhlet										
								I										
								H										
								A										
11	WS-AOC14-Co-65	9/6/17	845		X	O	U	X										
12	WS-AOC14-Co-66		855					X										
13	WS-AOC14-Co-67		905					X										
14	WS-AOC14-Co-68		915					X										
15	WS-AOC14-Co-69		925					X										
16	WS-AOC14-Co-70		935					X										
17	WS-AOC14-Co-71		945					X										

ANALYSIS REQUESTED

# of Containers
[2] Preservation Code
[3] Container Code

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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)
Porous media (concrete)

[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:
9/6/17	1430
Received by: (signature)	Date/Time:
	9/6/17 1430
Relinquished by: (signature)	Date/Time:
	9/6/17 1630
Received by: (signature)	Date/Time:
9/6/17	1630
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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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 9/6/17 Time 1630

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

Were samples within Temperature? 2-6°C T 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? 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	8
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	9
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: 17I0172

Laboratory Sample ID(s):

17I0172-01 thru 17I0172-17

Sample Date(s):

09/06/2017

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:** **09/19/17**

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 19, 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: 17I0175

Enclosed are results of analyses for samples received by the laboratory on September 6, 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: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0175

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-15-SO-2-2	17I0175-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-2-3	17I0175-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-7-1	17I0175-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-7-2	17I0175-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-7-3	17I0175-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-52-1	17I0175-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-52-2	17I0175-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-45-1	17I0175-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-45-2	17I0175-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-SO-45-3	17I0175-10	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.

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

B186051-BS1

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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2 Sampled: 9/6/2017 13:23

Sample ID: 17I0175-01

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	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 16:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		9/18/17 16:55
Decachlorobiphenyl [2]	87.8	30-150		9/18/17 16:55
Tetrachloro-m-xylene [1]	80.4	30-150		9/18/17 16:55
Tetrachloro-m-xylene [2]	90.9	30-150		9/18/17 16:55

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2 Sampled: 9/6/2017 13:23

Sample ID: 17I0175-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	68	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/13/17 18:04	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.8	50-150		9/13/17 18:04

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-2 Sampled: 9/6/2017 13:23

Sample ID: 17I0175-01

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	89.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3 Sampled: 9/6/2017 13:24

Sample ID: 17I0175-02

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	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.1	30-150		9/18/17 17:08
Decachlorobiphenyl [2]	89.1	30-150		9/18/17 17:08
Tetrachloro-m-xylene [1]	83.5	30-150		9/18/17 17:08
Tetrachloro-m-xylene [2]	95.7	30-150		9/18/17 17:08

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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-2-3 Sampled: 9/6/2017 13:24

Sample ID: 17I0175-02

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	90.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1 Sampled: 9/6/2017 13:33

Sample ID: 17I0175-03

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	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.1	30-150		9/18/17 17:20
Decachlorobiphenyl [2]	87.0	30-150		9/18/17 17:20
Tetrachloro-m-xylene [1]	90.6	30-150		9/18/17 17:20
Tetrachloro-m-xylene [2]	102	30-150		9/18/17 17:20

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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1 Sampled: 9/6/2017 13:33

Sample ID: 17I0175-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	100	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 18:22	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	68.6	50-150		9/13/17 18:22

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-1 Sampled: 9/6/2017 13:33

Sample ID: 17I0175-03

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	95.7		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2 Sampled: 9/6/2017 13:34

Sample ID: 17I0175-04

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	9/12/17	9/18/17 17:33	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/18/17 17:33
Decachlorobiphenyl [2]	91.9	30-150		9/18/17 17:33
Tetrachloro-m-xylene [1]	78.9	30-150		9/18/17 17:33
Tetrachloro-m-xylene [2]	89.5	30-150		9/18/17 17:33

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-2 Sampled: 9/6/2017 13:34

Sample ID: 17I0175-04

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	92.8		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3 Sampled: 9/6/2017 13:35

Sample ID: 17I0175-05

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	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.9	30-150		9/18/17 17:46
Decachlorobiphenyl [2]	85.0	30-150		9/18/17 17:46
Tetrachloro-m-xylene [1]	90.6	30-150		9/18/17 17:46
Tetrachloro-m-xylene [2]	105	30-150		9/18/17 17:46

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-SO-7-3 Sampled: 9/6/2017 13:35

Sample ID: 17I0175-05

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	87.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1 Sampled: 9/5/2017 15:18

Sample ID: 17I0175-06

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	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 17:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.4	30-150		9/18/17 17:58
Decachlorobiphenyl [2]	63.6	30-150		9/18/17 17:58
Tetrachloro-m-xylene [1]	77.5	30-150		9/18/17 17:58
Tetrachloro-m-xylene [2]	84.1	30-150		9/18/17 17:58

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-1 Sampled: 9/5/2017 15:18

Sample ID: 17I0175-06

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	94.1		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2 Sampled: 9/5/2017 15:19

Sample ID: 17I0175-07

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	9/12/17	9/18/17 18:11	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.0	30-150		9/18/17 18:11
Decachlorobiphenyl [2]	60.1	30-150		9/18/17 18:11
Tetrachloro-m-xylene [1]	88.2	30-150		9/18/17 18:11
Tetrachloro-m-xylene [2]	98.8	30-150		9/18/17 18:11

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-52-2 Sampled: 9/5/2017 15:19

Sample ID: 17I0175-07

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	95.2		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1 Sampled: 9/5/2017 15:26

Sample ID: 17I0175-08

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	9/12/17	9/18/17 18:23	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1260 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL
Aroclor-1268 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.7	30-150		9/18/17 18:23
Decachlorobiphenyl [2]	63.8	30-150		9/18/17 18:23
Tetrachloro-m-xylene [1]	86.4	30-150		9/18/17 18:23
Tetrachloro-m-xylene [2]	100	30-150		9/18/17 18:23

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1 Sampled: 9/5/2017 15:26

Sample ID: 17I0175-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	9/12/17	9/14/17 10:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	56.1	50-150		9/14/17 10:12

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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-1 Sampled: 9/5/2017 15:26

Sample ID: 17I0175-08

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	89.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2 Sampled: 9/5/2017 15:27

Sample ID: 17I0175-09

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	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/18/17 18:36
Decachlorobiphenyl [2]	70.3	30-150		9/18/17 18:36
Tetrachloro-m-xylene [1]	86.6	30-150		9/18/17 18:36
Tetrachloro-m-xylene [2]	102	30-150		9/18/17 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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-2 Sampled: 9/5/2017 15:27

Sample ID: 17I0175-09

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	89.3		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3 Sampled: 9/5/2017 15:34

Sample ID: 17I0175-10

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	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/12/17	9/18/17 18:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.9	30-150		9/18/17 18:49
Decachlorobiphenyl [2]	79.5	30-150		9/18/17 18:49
Tetrachloro-m-xylene [1]	88.5	30-150		9/18/17 18:49
Tetrachloro-m-xylene [2]	101	30-150		9/18/17 18:49

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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: 17I0175

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-SO-45-3 Sampled: 9/5/2017 15:34

Sample ID: 17I0175-10

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	66.5		% Wt	1		SM 2540G	9/12/17	9/13/17 8:38	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
17I0175-01 [WS-AOC-15-SO-2-2]	B186051	30.0	1.00	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B186051	30.0	1.00	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185999	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185999	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185999	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185999	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185999	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185999	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185999	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185999	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185999	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185999	09/12/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0175-01 [WS-AOC-15-SO-2-2]	B185991	10.0	10.0	09/12/17
17I0175-02 [WS-AOC-15-SO-2-3]	B185991	10.0	10.0	09/12/17
17I0175-03 [WS-AOC-15-SO-7-1]	B185991	10.0	10.0	09/12/17
17I0175-04 [WS-AOC-15-SO-7-2]	B185991	10.0	10.0	09/12/17
17I0175-05 [WS-AOC-15-SO-7-3]	B185991	10.0	10.0	09/12/17
17I0175-06 [WS-AOC-12E-SO-52-1]	B185991	10.0	10.0	09/12/17
17I0175-07 [WS-AOC-12E-SO-52-2]	B185991	10.0	10.0	09/12/17
17I0175-08 [WS-AOC-12E-SO-45-1]	B185991	10.0	10.0	09/12/17
17I0175-09 [WS-AOC-12E-SO-45-2]	B185991	10.0	10.0	09/12/17
17I0175-10 [WS-AOC-12E-SO-45-3]	B185991	10.0	10.0	09/12/17

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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 B185991 - SW-846 3540C										
Blank (B185991-BLK1)				Prepared: 09/12/17 Analyzed: 09/18/17						
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	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg wet	0.200		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		88.0	30-150			
LCS (B185991-BS1)				Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.3	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.2	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140			
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		95.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			
LCS Dup (B185991-BSD1)				Prepared: 09/12/17 Analyzed: 09/18/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	4.07	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.4	40-140	3.01	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	3.41	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140	1.61	30	
Surrogate: Decachlorobiphenyl	*0.182*		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg wet	0.200		83.0	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 B186051 - SW-846 3546											
Blank (B186051-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.76*		mg/Kg wet	3.33		82.8		50-150			
LCS (B186051-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	19.8	10	mg/Kg wet	33.3		**59.3**	*	60-120			L-07
Surrogate: o-Terphenyl	*2.36*		mg/Kg wet	3.33		70.8		50-150			
LCS Dup (B186051-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8		60-120	13.3	30	
Surrogate: o-Terphenyl	*2.53*		mg/Kg wet	3.33		75.8		50-150			

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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.
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.

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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

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

17I0175

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 _____ 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	PCBs	Soxhlet	EPH													# of Containers / [2] Preservation Code / [3] Container Code
																							1 / H / A
1	WS-ADC-1552-2	9/6/17	1323		X	S	U	X	X														
2	WS-ADC-1552-3	9/6/17	1324		X	S	U	X															
3	WS-ADC-1557-1	9/6/17	1333		X	S	U	X	X														
4	WS-ADC-1557-2	9/6/17	1334		X	S	U	X															
5	WS-ADC-1557-3	9/6/17	1335		X	S	U	X															
6	WS-ADC-12E-SO-52-1	9/5/17	1518		X	S	U	X															
7	WS-ADC-12E-SO-52-2	9/5/17	1519		X	S	U	X															
8	WS-ADC-12E-SO-45-1	↓	1526		X	S	U	X	X														
9	WS-ADC-12E-SO-45-2		1527		X	S	U	X															
10	WS-ADC-12E-SO-45-3		1534		X	S	U	X															

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: 9/6/17 1430
Received by: (signature)	Date/Time: 9/6/17 1430
Relinquished by: (signature)	Date/Time: 9/6/17 1630
Received by: (signature)	Date/Time: 9/6/17 1630
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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39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
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 JM Date 9/6/17 Time 1630

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

Were samples within Temperature? 2-6°C T 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? 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	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			

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\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/13/17
Data File Name	A0913007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
17I0175-03@10X
17I0177-17@10X

D:\HPCHEM\1\DATA\A091317\A0913108.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/14/17
Data File Name	A0913108.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	553300	590564	-6
c - 10	1.64	561513	590564	-5
c - 12	2.37	575104	590564	-3
c - 14	3.04	585879	590564	-1
c - 16	3.65	600478	590564	2
c - 18	4.29	597328	590564	1
o-Terphenyl	4.57	669326	590564	
c - 20	4.89	609508	590564	3
c - 22	5.40	625539	590564	6
c - 24	5.83	589170	590564	0
c - 26	6.23	623817	590564	6
c - 28	6.59	615149	590564	4
c - 30	6.92	604930	590564	2
c - 32	7.23	579634	590564	-2
c - 34	7.53	572069	590564	-3
c - 36	7.87	565044	590564	-4

* One compound allowed %D <= 50%

Samples

17I0175-08
17I0248-02

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: 17I0175

Laboratory Sample ID(s):

17I0175-01 thru 17I0175-10

Sample Date(s):

09/05/2017,
09/06/2017

List RCP Methods Used:

CTDEP ETPH, 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:** **09/19/17**

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 19, 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: 17I0177

Enclosed are results of analyses for samples received by the laboratory on September 6, 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: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0177

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-12E-S0-49-1	17I0177-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-49-2	17I0177-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-49-3	17I0177-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-37-1	17I0177-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-37-2	17I0177-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-37-3	17I0177-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-51-1	17I0177-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-51-2	17I0177-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-51-3	17I0177-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-39-1	17I0177-10	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-39-2	17I0177-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-39-3	17I0177-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-41-1	17I0177-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-41-2	17I0177-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-41-3	17I0177-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-48-1	17I0177-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-48-2	17I0177-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12E-S0-48-3	17I0177-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 9/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0177

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-12E-S0-DUP-48	17I0177-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-S0-2-1	17I0177-20	Soil		SM 2540G	
				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.

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

B186051-BS1

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

17I0177-04[WS-AOC-12E-S0-37-1], 17I0177-10[WS-AOC-12E-S0-39-1]

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1 Sampled: 9/6/2017 09:29

Sample ID: 17I0177-01

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	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.7	30-150		9/18/17 11:12
Decachlorobiphenyl [2]	101	30-150		9/18/17 11:12
Tetrachloro-m-xylene [1]	98.6	30-150		9/18/17 11:12
Tetrachloro-m-xylene [2]	97.7	30-150		9/18/17 11:12

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-1 Sampled: 9/6/2017 09:29

Sample ID: 17I0177-01

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	87.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2 Sampled: 9/6/2017 09:30

Sample ID: 17I0177-02

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:24	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.8	30-150		9/18/17 11:24
Decachlorobiphenyl [2]	92.7	30-150		9/18/17 11:24
Tetrachloro-m-xylene [1]	91.7	30-150		9/18/17 11:24
Tetrachloro-m-xylene [2]	90.8	30-150		9/18/17 11:24

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-2 Sampled: 9/6/2017 09:30

Sample ID: 17I0177-02

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3 Sampled: 9/6/2017 09:31

Sample ID: 17I0177-03

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	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.9	30-150		9/18/17 11:37
Decachlorobiphenyl [2]	115	30-150		9/18/17 11:37
Tetrachloro-m-xylene [1]	86.4	30-150		9/18/17 11:37
Tetrachloro-m-xylene [2]	83.6	30-150		9/18/17 11:37

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-49-3 Sampled: 9/6/2017 09:31

Sample ID: 17I0177-03

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	70.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1 Sampled: 9/6/2017 09:53

Sample ID: 17I0177-04

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	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 11:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		9/18/17 11:49
Decachlorobiphenyl [2]	100	30-150		9/18/17 11:49
Tetrachloro-m-xylene [1]	95.6	30-150		9/18/17 11:49
Tetrachloro-m-xylene [2]	94.7	30-150		9/18/17 11:49

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1 Sampled: 9/6/2017 09:53

Sample ID: 17I0177-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1100	230	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 20:03	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/14/17 20:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-1 Sampled: 9/6/2017 09:53

Sample ID: 17I0177-04

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	86.6		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2 Sampled: 9/6/2017 09:54

Sample ID: 17I0177-05

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	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/18/17 12:01
Decachlorobiphenyl [2]	95.7	30-150		9/18/17 12:01
Tetrachloro-m-xylene [1]	88.8	30-150		9/18/17 12:01
Tetrachloro-m-xylene [2]	85.1	30-150		9/18/17 12:01

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2 Sampled: 9/6/2017 09:54

Sample ID: 17I0177-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	150	62	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 18:51	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	58.2	50-150		9/14/17 18:51

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-2 Sampled: 9/6/2017 09:54

Sample ID: 17I0177-05

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	80.1		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3 Sampled: 9/6/2017 10:15

Sample ID: 17I0177-06

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.8	30-150		9/18/17 12:13
Decachlorobiphenyl [2]	94.6	30-150		9/18/17 12:13
Tetrachloro-m-xylene [1]	100	30-150		9/18/17 12:13
Tetrachloro-m-xylene [2]	96.9	30-150		9/18/17 12:13

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-37-3 Sampled: 9/6/2017 10:15

Sample ID: 17I0177-06

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	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1 Sampled: 9/6/2017 10:49

Sample ID: 17I0177-07

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	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.3	30-150		9/18/17 12:25
Decachlorobiphenyl [2]	96.2	30-150		9/18/17 12:25
Tetrachloro-m-xylene [1]	99.8	30-150		9/18/17 12:25
Tetrachloro-m-xylene [2]	98.8	30-150		9/18/17 12:25

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-1 Sampled: 9/6/2017 10:49

Sample ID: 17I0177-07

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	90.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2 Sampled: 9/6/2017 10:50

Sample ID: 17I0177-08

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	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1221 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1232 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1242 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1248 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1254 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1260 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1262 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL
Aroclor-1268 [1]	ND	0.094	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.3	30-150		9/18/17 12:37
Decachlorobiphenyl [2]	91.6	30-150		9/18/17 12:37
Tetrachloro-m-xylene [1]	92.9	30-150		9/18/17 12:37
Tetrachloro-m-xylene [2]	90.1	30-150		9/18/17 12:37

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2 Sampled: 9/6/2017 10:50

Sample ID: 17I0177-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	59	mg/Kg dry	5		CTDEP ETPH	9/12/17	9/14/17 19:09	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	59.3	50-150		9/14/17 19:09

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-2 Sampled: 9/6/2017 10:50

Sample ID: 17I0177-08

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	84.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3 Sampled: 9/6/2017 10:51

Sample ID: 17I0177-09

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	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 12:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		9/18/17 12:50
Decachlorobiphenyl [2]	98.5	30-150		9/18/17 12:50
Tetrachloro-m-xylene [1]	93.9	30-150		9/18/17 12:50
Tetrachloro-m-xylene [2]	89.1	30-150		9/18/17 12:50

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-51-3 Sampled: 9/6/2017 10:51

Sample ID: 17I0177-09

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	74.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1 Sampled: 9/6/2017 10:45

Sample ID: 17I0177-10

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	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 13:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		9/18/17 13:48
Decachlorobiphenyl [2]	91.3	30-150		9/18/17 13:48
Tetrachloro-m-xylene [1]	94.0	30-150		9/18/17 13:48
Tetrachloro-m-xylene [2]	93.5	30-150		9/18/17 13:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1 Sampled: 9/6/2017 10:45

Sample ID: 17I0177-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	690	210	mg/Kg dry	20		CTDEP ETPH	9/12/17	9/14/17 19:27	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/14/17 19:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-1 Sampled: 9/6/2017 10:45

Sample ID: 17I0177-10

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	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2 Sampled: 9/6/2017 10:46

Sample ID: 17I0177-11

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		9/18/17 14:01
Decachlorobiphenyl [2]	85.4	30-150		9/18/17 14:01
Tetrachloro-m-xylene [1]	90.6	30-150		9/18/17 14:01
Tetrachloro-m-xylene [2]	96.1	30-150		9/18/17 14:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-2 Sampled: 9/6/2017 10:46

Sample ID: 17I0177-11

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	89.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3 Sampled: 9/6/2017 10:47

Sample ID: 17I0177-12

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	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		9/18/17 14:13
Decachlorobiphenyl [2]	102	30-150		9/18/17 14:13
Tetrachloro-m-xylene [1]	83.8	30-150		9/18/17 14:13
Tetrachloro-m-xylene [2]	82.3	30-150		9/18/17 14:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-39-3 Sampled: 9/6/2017 10:47

Sample ID: 17I0177-12

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	73.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1 Sampled: 9/6/2017 11:07

Sample ID: 17I0177-13

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.4	30-150		9/18/17 14:25
Decachlorobiphenyl [2]	85.5	30-150		9/18/17 14:25
Tetrachloro-m-xylene [1]	87.4	30-150		9/18/17 14:25
Tetrachloro-m-xylene [2]	88.6	30-150		9/18/17 14:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-1 Sampled: 9/6/2017 11:07

Sample ID: 17I0177-13

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	88.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2 Sampled: 9/6/2017 11:08

Sample ID: 17I0177-14

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	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.7	30-150		9/18/17 14:37
Decachlorobiphenyl [2]	71.5	30-150		9/18/17 14:37
Tetrachloro-m-xylene [1]	80.0	30-150		9/18/17 14:37
Tetrachloro-m-xylene [2]	82.8	30-150		9/18/17 14:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-2 Sampled: 9/6/2017 11:08

Sample ID: 17I0177-14

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	88.9		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3 Sampled: 9/6/2017 11:09

Sample ID: 17I0177-15

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	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 14:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.0	30-150		9/18/17 14:49
Decachlorobiphenyl [2]	79.7	30-150		9/18/17 14:49
Tetrachloro-m-xylene [1]	91.7	30-150		9/18/17 14:49
Tetrachloro-m-xylene [2]	89.7	30-150		9/18/17 14:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-41-3 Sampled: 9/6/2017 11:09

Sample ID: 17I0177-15

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	78.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1 Sampled: 9/6/2017 11:00

Sample ID: 17I0177-16

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	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		9/18/17 15:02
Decachlorobiphenyl [2]	90.3	30-150		9/18/17 15:02
Tetrachloro-m-xylene [1]	102	30-150		9/18/17 15:02
Tetrachloro-m-xylene [2]	102	30-150		9/18/17 15:02

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-1 Sampled: 9/6/2017 11:00

Sample ID: 17I0177-16

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	94.8		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2 Sampled: 9/6/2017 11:01

Sample ID: 17I0177-17

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	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.9	30-150		9/18/17 15:14
Decachlorobiphenyl [2]	97.4	30-150		9/18/17 15:14
Tetrachloro-m-xylene [1]	97.9	30-150		9/18/17 15:14
Tetrachloro-m-xylene [2]	96.3	30-150		9/18/17 15:14

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2 Sampled: 9/6/2017 11:01

Sample ID: 17I0177-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	360	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/13/17 19:52	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.3	50-150		9/13/17 19:52

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-2 Sampled: 9/6/2017 11:01

Sample ID: 17I0177-17

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	83.7		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3 Sampled: 9/6/2017 11:02

Sample ID: 17I0177-18

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	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.3	30-150		9/18/17 15:26
Decachlorobiphenyl [2]	86.8	30-150		9/18/17 15:26
Tetrachloro-m-xylene [1]	92.6	30-150		9/18/17 15:26
Tetrachloro-m-xylene [2]	89.0	30-150		9/18/17 15:26

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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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-48-3 Sampled: 9/6/2017 11:02

Sample ID: 17I0177-18

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	81.4		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48 Sampled: 9/6/2017 00:00

Sample ID: 17I0177-19

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	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.0	30-150		9/18/17 15:38
Decachlorobiphenyl [2]	77.7	30-150		9/18/17 15:38
Tetrachloro-m-xylene [1]	85.8	30-150		9/18/17 15:38
Tetrachloro-m-xylene [2]	82.1	30-150		9/18/17 15:38

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48 Sampled: 9/6/2017 00:00

Sample ID: 17I0177-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	120	mg/Kg dry	10		CTDEP ETPH	9/12/17	9/14/17 19:45	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	67.4	50-150		9/14/17 19:45

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-12E-S0-DUP-48 Sampled: 9/6/2017 00:00

Sample ID: 17I0177-19

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	82.2		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1 Sampled: 9/6/2017 13:22

Sample ID: 17I0177-20

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	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL
Aroclor-1268 [2]	0.15	0.086	mg/Kg dry	4		SW-846 8082A	9/11/17	9/18/17 15:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		9/18/17 15:50
Decachlorobiphenyl [2]	92.5	30-150		9/18/17 15:50
Tetrachloro-m-xylene [1]	90.0	30-150		9/18/17 15:50
Tetrachloro-m-xylene [2]	92.5	30-150		9/18/17 15:50

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: 17I0177

Date Received: 9/6/2017

Field Sample #: WS-AOC-15-S0-2-1 Sampled: 9/6/2017 13:22

Sample ID: 17I0177-20

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	93.3		% Wt	1		SM 2540G	9/7/17	9/8/17 8:18	MRL

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
17I0177-04 [WS-AOC-12E-S0-37-1]	B186051	30.0	1.00	09/12/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B186051	30.0	1.00	09/12/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B186051	30.0	1.00	09/12/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B186051	30.0	1.00	09/12/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B186051	30.0	1.00	09/12/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B186051	30.0	1.00	09/12/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185740	09/07/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185740	09/07/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185740	09/07/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185740	09/07/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185740	09/07/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185740	09/07/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185740	09/07/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185740	09/07/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185740	09/07/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185740	09/07/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185740	09/07/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185740	09/07/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185740	09/07/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185740	09/07/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185740	09/07/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185740	09/07/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185740	09/07/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185740	09/07/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185740	09/07/17
17I0177-20 [WS-AOC-15-S0-2-1]	B185740	09/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0177-01 [WS-AOC-12E-S0-49-1]	B185967	10.0	10.0	09/11/17
17I0177-02 [WS-AOC-12E-S0-49-2]	B185967	10.0	10.0	09/11/17
17I0177-03 [WS-AOC-12E-S0-49-3]	B185967	10.0	10.0	09/11/17
17I0177-04 [WS-AOC-12E-S0-37-1]	B185967	10.0	10.0	09/11/17
17I0177-05 [WS-AOC-12E-S0-37-2]	B185967	10.0	10.0	09/11/17
17I0177-06 [WS-AOC-12E-S0-37-3]	B185967	10.0	10.0	09/11/17
17I0177-07 [WS-AOC-12E-S0-51-1]	B185967	10.0	10.0	09/11/17
17I0177-08 [WS-AOC-12E-S0-51-2]	B185967	10.0	10.0	09/11/17
17I0177-09 [WS-AOC-12E-S0-51-3]	B185967	10.0	10.0	09/11/17
17I0177-10 [WS-AOC-12E-S0-39-1]	B185967	10.0	10.0	09/11/17
17I0177-11 [WS-AOC-12E-S0-39-2]	B185967	10.0	10.0	09/11/17
17I0177-12 [WS-AOC-12E-S0-39-3]	B185967	10.0	10.0	09/11/17
17I0177-13 [WS-AOC-12E-S0-41-1]	B185967	10.0	10.0	09/11/17
17I0177-14 [WS-AOC-12E-S0-41-2]	B185967	10.0	10.0	09/11/17
17I0177-15 [WS-AOC-12E-S0-41-3]	B185967	10.0	10.0	09/11/17
17I0177-16 [WS-AOC-12E-S0-48-1]	B185967	10.0	10.0	09/11/17
17I0177-17 [WS-AOC-12E-S0-48-2]	B185967	10.0	10.0	09/11/17
17I0177-18 [WS-AOC-12E-S0-48-3]	B185967	10.0	10.0	09/11/17
17I0177-19 [WS-AOC-12E-S0-DUP-48]	B185967	10.0	10.0	09/11/17

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 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0177-20 [WS-AOC-15-S0-2-1]	B185967	10.0	10.0	09/11/17

con-test® ANALYTICAL LABORATORY

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

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 B185967 - SW-846 3540C										
Blank (B185967-BLK1)				Prepared: 09/11/17 Analyzed: 09/18/17						
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	*0.180*		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg wet	0.200		89.3	30-150			
LCS (B185967-BS1)				Prepared: 09/11/17 Analyzed: 09/18/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		87.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	*0.180*		mg/Kg wet	0.200		89.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B185967-BSD1)				Prepared: 09/11/17 Analyzed: 09/18/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	0.207	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.1	40-140	1.96	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	2.49	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.79	30	
Surrogate: Decachlorobiphenyl	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.193*		mg/Kg wet	0.200		96.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		88.2	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 B185967 - SW-846 3540C										
Matrix Spike (B185967-MS1)		**Source: 17I0177-12**		Prepared: 09/11/17 Analyzed: 09/18/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.273	ND	71.0	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.273	ND	81.4	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	55.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.273	ND	63.1	40-140			
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg dry	0.273		70.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.398*		mg/Kg dry	0.273		146	30-150			
Surrogate: Tetrachloro-m-xylene	*0.213*		mg/Kg dry	0.273		78.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.226*		mg/Kg dry	0.273		82.9	30-150			
Matrix Spike Dup (B185967-MSD1)		**Source: 17I0177-12**		Prepared: 09/11/17 Analyzed: 09/18/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.273	ND	61.9	40-140	13.6	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.273	ND	77.5	40-140	4.95	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.273	ND	56.7	40-140	1.85	50	
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.273	ND	65.1	40-140	3.16	50	
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg dry	0.273		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.269*		mg/Kg dry	0.273		98.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg dry	0.273		82.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.227*		mg/Kg dry	0.273		83.3	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 B186051 - SW-846 3546											
Blank (B186051-BLK1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.76*		mg/Kg wet	3.33		82.8		50-150			
LCS (B186051-BS1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	19.8	10	mg/Kg wet	33.3		**59.3**	*	60-120			L-07
Surrogate: o-Terphenyl	*2.36*		mg/Kg wet	3.33		70.8		50-150			
LCS Dup (B186051-BSD1)				Prepared: 09/12/17 Analyzed: 09/13/17							
CT ETPH	22.6	10	mg/Kg wet	33.3		67.8		60-120	13.3	30	
Surrogate: o-Terphenyl	*2.53*		mg/Kg wet	3.33		75.8		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 B185740 - % Solids										
Duplicate (B185740-DUP1)		**Source: 17I0177-11**		Prepared: 09/07/17 Analyzed: 09/08/17						
% Solids	90.7		% Wt		89.2			1.67	20	
Duplicate (B185740-DUP2)		**Source: 17I0177-12**		Prepared: 09/07/17 Analyzed: 09/08/17						
% Solids	76.7		% Wt		73.3			4.53	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-15-S0-2-1

Lab Sample ID: 17I0177-20

Date(s) Analyzed: 09/18/2017 09/18/2017

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-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.15	14.3

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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.

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.
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 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

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

3 large blue

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD 17E0177

39 Spruce Street
East Longmeadow, MA 01028

Page _____ 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	Pb, Sonner	EPH
1	WS-ADC-12E#49-1	9/6/17	9:29		X	S	U	X	
2	WS-ADC-12E#49-2	9/6/17	9:30		X	S	U	X	
3	WS-ADC-12E#49-3	9/6/17	9:31		X	S	U	X	
4	WS-ADC-12E#37-1	9/6/17	9:53		X	S	U	X	X
5	WS-ADC-12E#37-2	9/6/17	9:54		X	S	U	X	X
6	WS-ADC-12E#37-3	9/6/17	10:15		X	S	U	X	
7	WS-ADC-12E#51-1	9/6/17	1049		X	S	U	X	
8	WS-ADC-12E#51-2	9/6/17	1050		X	S	U	X	X
9	WS-ADC-12E#51-3	9/6/17	1051		X	S	U	X	
10	WS-ADC-12E#39-1	9/6/17	1045		X	S	U	X	X

[1] # of Containers	1
[2] Preservation Code	H
[3] Container Code	A

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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: 9/6/17 1430
Received by: (signature)	Date/Time: 9/6/17 1430
Relinquished by: (signature)	Date/Time: 9/6/17 1630
Received by: (signature)	Date/Time: 9/6/17 1630
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 # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

1710177

39 Spruce Street
East Longmeadow, MA 01028

Page _____ 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	PCBs Soxhlet	EPH									
								1										# of Containers
								H										[2] Preservation Code
								A										[3] Container Code
11	WS-AOC-12E-39-2	9/6/17	1046		X	S	U	X										
12	WS-AOC-12E-39-3	9/6/17	1047		X	S	U	X										
13	WS-AOC-12E-41-1	9/6/17	1107		X	S	U	X										
14	WS-AOC-12E-41-2	9/6/17	1108		X	S	U	X										
15	WS-AOC-12E-41-3	9/6/17	1109		X	S	U	X										
16	WS-AOC-12E-48-1	9/6/17	1100		X	S	U	X										
17	WS-AOC-12E-48-2	9/6/17	1101		X	S	U	X	X									
18	WS-AOC-12E-48-3	9/6/17	1102		X	S	U	X										
19	WS-AOC-12E-DUP 48	9/6/17	—		X	S	U	X	X									
20	WS-AOC-15-2-1	9/6/17	1322		X	S	U	X										

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
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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.
For WS-AOC-12E-39-3 please do MS/MSD

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: 9/6/17 1430
Received by: (signature)	Date/Time: 9/6/17 1430
Relinquished by: (signature)	Date/Time: 9/6/17 1630
Received by: (signature)	Date/Time: 9/6/17 1630
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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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 9/6/17 Time 1630

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

Were samples within Temperature? 2-6°C T 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? 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	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\A091317.SEC\A0913007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/13/17
Data File Name	A0913007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	588071	606245	-3
c - 10	1.63	595033	606245	-2
c - 12	2.35	611957	606245	1
c - 14	3.01	622160	606245	3
c - 16	3.61	634325	606245	5
c - 18	4.23	624551	606245	3
o-Terphenyl	4.51	692611	606245	
c - 20	4.83	629691	606245	4
c - 22	5.34	636645	606245	5
c - 24	5.77	591488	606245	-2
c - 26	6.16	620737	606245	2
c - 28	6.52	609671	606245	1
c - 30	6.85	598868	606245	-1
c - 32	7.16	577682	606245	-5
c - 34	7.46	576944	606245	-5
c - 36	7.77	575858	606245	-5

* One compound allowed %D <= 50%

Samples

17I0175-01
17I0175-03@10X
17I0177-17@10X

D:\HPCHEM\1\DATA\A091417\A0914006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/14/17
Data File Name	A0914006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	453384	492607	-8
c - 10	1.64	459697	492607	-7
c - 12	2.37	475397	492607	-3
c - 14	3.04	486082	492607	-1
c - 16	3.65	499764	492607	1
c - 18	4.29	497896	492607	1
o-Terphenyl	4.57	557590	492607	
c - 20	4.89	508182	492607	3
c - 22	5.39	521020	492607	6
c - 24	5.83	490841	492607	0
c - 26	6.23	519460	492607	5
c - 28	6.59	511554	492607	4
c - 30	6.92	503634	492607	2
c - 32	7.24	486513	492607	-1
c - 34	7.53	487105	492607	-1
c - 36	7.88	488572	492607	-1

* One compound allowed %D </= 50%

Samples
17I0177-05
17I0177-08
17I0177-10
17I0177-19
17I0177-04
17I0325-03

D:\HPCHEM\1\DATA\A091417.SEC\A0914007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 9/14/17
Data File Name A0914007.D
Sample Name ETPH 1500
Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	539073	575809	-6
c - 10	1.62	543533	575809	-6
c - 12	2.34	558790	575809	-3
c - 14	3.01	572281	575809	-1
c - 16	3.61	587727	575809	2
c - 18	4.23	583831	575809	1
o-Terphenyl	4.51	652231	575809	
c - 20	4.83	593936	575809	3
c - 22	5.34	605192	575809	5
c - 24	5.77	567503	575809	-1
c - 26	6.17	598870	575809	4
c - 28	6.52	591410	575809	3
c - 30	6.85	587003	575809	2
c - 32	7.16	570625	575809	-1
c - 34	7.46	570163	575809	-1
c - 36	7.77	567197	575809	-1

* One compound allowed %D </= 50%

Samples
17I0174-01
17I0174-02
17I0287-02
17I0287-03
17I0287-04
17I0314-01
17I0314-02
17I0314-03
17I0322-01
17I0325-01
17I0325-02
17I0325-03

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: 17I0177

Laboratory Sample ID(s):
17I0177-01 thru 17I0177-20

Sample Date(s):
09/06/2017

List RCP Methods Used:
CTDEP ETPH, 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:** **09/19/17**

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 22, 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: 17I0320

Enclosed are results of analyses for samples received by the laboratory on September 8, 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: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0320

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-6-SO-16-3	17I0320-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-16-4	17I0320-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-1	17I0320-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-2	17I0320-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-3	17I0320-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-10-4	17I0320-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-1	17I0320-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-2	17I0320-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-15-3	17I0320-09	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-6-SO-15-4	17I0320-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-1	17I0320-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-2	17I0320-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-3	17I0320-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-9-4	17I0320-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-1	17I0320-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-2	17I0320-16	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-3	17I0320-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-14-4	17I0320-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0320

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-12W-SO-109-1	17I0320-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-109-2	17I0320-20	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 8082A

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:

Aroclor-1260

B186354-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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3 Sampled: 9/8/2017 11:37

Sample ID: 17I0320-01

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	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 19:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.3	30-150		9/21/17 19:49
Decachlorobiphenyl [2]	110	30-150		9/21/17 19:49
Tetrachloro-m-xylene [1]	93.5	30-150		9/21/17 19:49
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:49

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-3 Sampled: 9/8/2017 11:37

Sample ID: 17I0320-01

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	77.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4 Sampled: 9/8/2017 11:38

Sample ID: 17I0320-02

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	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		9/21/17 20:06
Decachlorobiphenyl [2]	95.7	30-150		9/21/17 20:06
Tetrachloro-m-xylene [1]	88.4	30-150		9/21/17 20:06
Tetrachloro-m-xylene [2]	85.9	30-150		9/21/17 20:06

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-16-4 Sampled: 9/8/2017 11:38

Sample ID: 17I0320-02

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	81.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1 Sampled: 9/8/2017 11:53

Sample ID: 17I0320-03

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	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1260 [1]	0.34	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.9	30-150		9/21/17 20:23
Decachlorobiphenyl [2]	105	30-150		9/21/17 20:23
Tetrachloro-m-xylene [1]	99.0	30-150		9/21/17 20:23
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 20:23

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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-1 Sampled: 9/8/2017 11:53

Sample ID: 17I0320-03

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	67.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

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	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1221 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1232 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1242 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1248 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1254 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1260 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1262 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL
Aroclor-1268 [1]	ND	0.095	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 20:41
Decachlorobiphenyl [2]	93.2	30-150		9/21/17 20:41
Tetrachloro-m-xylene [1]	92.6	30-150		9/21/17 20:41
Tetrachloro-m-xylene [2]	90.2	30-150		9/21/17 20:41

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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	12	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 3:55	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.1	50-150		9/19/17 3:55

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-2 Sampled: 9/8/2017 11:54

Sample ID: 17I0320-04

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	81.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3 Sampled: 9/8/2017 11:55

Sample ID: 17I0320-05

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	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 20:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		9/21/17 20:58
Decachlorobiphenyl [2]	103	30-150		9/21/17 20:58
Tetrachloro-m-xylene [1]	97.6	30-150		9/21/17 20:58
Tetrachloro-m-xylene [2]	95.3	30-150		9/21/17 20:58

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-3 Sampled: 9/8/2017 11:55

Sample ID: 17I0320-05

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	89.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4 Sampled: 9/8/2017 11:56

Sample ID: 17I0320-06

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	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.8	30-150		9/21/17 21:15
Decachlorobiphenyl [2]	107	30-150		9/21/17 21:15
Tetrachloro-m-xylene [1]	98.5	30-150		9/21/17 21:15
Tetrachloro-m-xylene [2]	96.4	30-150		9/21/17 21:15

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-10-4 Sampled: 9/8/2017 11:56

Sample ID: 17I0320-06

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	77.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1 Sampled: 9/8/2017 11:57

Sample ID: 17I0320-07

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	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1221 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1232 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1242 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1248 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1254 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1260 [2]	2.9	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1262 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL
Aroclor-1268 [1]	ND	0.46	mg/Kg dry	20		SW-846 8082A	9/15/17	9/22/17 9:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/22/17 9:19
Decachlorobiphenyl [2]	114	30-150		9/22/17 9:19
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 9:19
Tetrachloro-m-xylene [2]	99.9	30-150		9/22/17 9:19

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-1 Sampled: 9/8/2017 11:57

Sample ID: 17I0320-07

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	82.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

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	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1260 [1]	0.51	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 21:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.4	30-150		9/21/17 21:50
Decachlorobiphenyl [2]	93.1	30-150		9/21/17 21:50
Tetrachloro-m-xylene [1]	81.0	30-150		9/21/17 21:50
Tetrachloro-m-xylene [2]	78.3	30-150		9/21/17 21:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	66	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 2:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	54.5	50-150		9/20/17 2:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-2 Sampled: 9/8/2017 11:58

Sample ID: 17I0320-08

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	75.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

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	9/15/17	9/18/17 14:59	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(b)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Chrysene	0.28	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluoranthene	0.32	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Naphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Phenanthrene	0.41	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL
Pyrene	0.24	0.22	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 14:59	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	48.0	30-130		9/18/17 14:59
2-Fluorobiphenyl	54.3	30-130		9/18/17 14:59
p-Terphenyl-d14	57.2	30-130		9/18/17 14:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

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	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 22:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		9/21/17 22:07
Decachlorobiphenyl [2]	106	30-150		9/21/17 22:07
Tetrachloro-m-xylene [1]	103	30-150		9/21/17 22:07
Tetrachloro-m-xylene [2]	99.7	30-150		9/21/17 22:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-3 Sampled: 9/8/2017 11:59

Sample ID: 17I0320-09

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	77.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4 Sampled: 9/8/2017 12:00

Sample ID: 17I0320-10

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	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		9/21/17 23:11
Decachlorobiphenyl [2]	104	30-150		9/21/17 23:11
Tetrachloro-m-xylene [1]	92.4	30-150		9/21/17 23:11
Tetrachloro-m-xylene [2]	90.1	30-150		9/21/17 23:11

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-15-4 Sampled: 9/8/2017 12:00

Sample ID: 17I0320-10

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	85.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1 Sampled: 9/8/2017 12:07

Sample ID: 17I0320-11

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	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1221 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1232 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1242 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1248 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1254 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1260 [2]	0.10	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1262 [1]	ND	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL
Aroclor-1268 [2]	0.20	0.089	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 16:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	108	30-150		9/22/17 16:26
Decachlorobiphenyl [2]	127	30-150		9/22/17 16:26
Tetrachloro-m-xylene [1]	102	30-150		9/22/17 16:26
Tetrachloro-m-xylene [2]	104	30-150		9/22/17 16:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-1 Sampled: 9/8/2017 12:07

Sample ID: 17I0320-11

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	87.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

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	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 23:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.6	30-150		9/21/17 23:45
Decachlorobiphenyl [2]	107	30-150		9/21/17 23:45
Tetrachloro-m-xylene [1]	99.5	30-150		9/21/17 23:45
Tetrachloro-m-xylene [2]	96.1	30-150		9/21/17 23:45

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	170	58	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/20/17 3:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	59.6	50-150		9/20/17 3:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-2 Sampled: 9/8/2017 12:08

Sample ID: 17I0320-12

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	86.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3 Sampled: 9/8/2017 12:09

Sample ID: 17I0320-13

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	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		9/22/17 0:02
Decachlorobiphenyl [2]	109	30-150		9/22/17 0:02
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 0:02
Tetrachloro-m-xylene [2]	100	30-150		9/22/17 0:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-3 Sampled: 9/8/2017 12:09

Sample ID: 17I0320-13

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	85.5		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4 Sampled: 9/8/2017 12:10

Sample ID: 17I0320-14

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	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 0:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.6	30-150		9/22/17 0:20
Decachlorobiphenyl [2]	112	30-150		9/22/17 0:20
Tetrachloro-m-xylene [1]	90.2	30-150		9/22/17 0:20
Tetrachloro-m-xylene [2]	85.6	30-150		9/22/17 0:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-9-4 Sampled: 9/8/2017 12:10

Sample ID: 17I0320-14

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	86.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1 Sampled: 9/8/2017 12:26

Sample ID: 17I0320-15

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	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1248 [2]	0.90	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1260 [1]	0.98	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.8	30-150		9/22/17 9:32
Decachlorobiphenyl [2]	86.3	30-150		9/22/17 9:32
Tetrachloro-m-xylene [1]	92.2	30-150		9/22/17 9:32
Tetrachloro-m-xylene [2]	90.0	30-150		9/22/17 9:32

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-1 Sampled: 9/8/2017 12:26

Sample ID: 17I0320-15

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	92.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

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	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1248 [1]	0.38	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1260 [2]	1.4	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	8		SW-846 8082A	9/15/17	9/22/17 9:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.3	30-150		9/22/17 9:44
Decachlorobiphenyl [2]	103	30-150		9/22/17 9:44
Tetrachloro-m-xylene [1]	91.0	30-150		9/22/17 9:44
Tetrachloro-m-xylene [2]	87.6	30-150		9/22/17 9:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	89	11	mg/Kg dry	1		CTDEP ETPH	9/15/17	9/19/17 4:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.4	50-150		9/19/17 4:47

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-2 Sampled: 9/8/2017 12:27

Sample ID: 17I0320-16

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	91.4		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3 Sampled: 9/8/2017 12:28

Sample ID: 17I0320-17

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	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:11	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.2	30-150		9/22/17 1:11
Decachlorobiphenyl [2]	96.8	30-150		9/22/17 1:11
Tetrachloro-m-xylene [1]	94.6	30-150		9/22/17 1:11
Tetrachloro-m-xylene [2]	92.2	30-150		9/22/17 1:11

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-3 Sampled: 9/8/2017 12:28

Sample ID: 17I0320-17

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	74.3		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4 Sampled: 9/8/2017 12:29

Sample ID: 17I0320-18

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	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		9/22/17 1:29
Decachlorobiphenyl [2]	103	30-150		9/22/17 1:29
Tetrachloro-m-xylene [1]	98.6	30-150		9/22/17 1:29
Tetrachloro-m-xylene [2]	95.0	30-150		9/22/17 1:29

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-14-4 Sampled: 9/8/2017 12:29

Sample ID: 17I0320-18

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	81.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

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	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)anthracene	0.88	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(a)pyrene	0.84	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(b)fluoranthene	0.90	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(g,h,i)perylene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Benzo(k)fluoranthene	0.36	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Chrysene	0.77	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluoranthene	1.7	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Naphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Phenanthrene	0.47	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL
Pyrene	1.6	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:24	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.7	30-130		9/18/17 15:24
2-Fluorobiphenyl	61.4	30-130		9/18/17 15:24
p-Terphenyl-d14	66.5	30-130		9/18/17 15:24

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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

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	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 1:46	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.2	30-150		9/22/17 1:46
Decachlorobiphenyl [2]	104	30-150		9/22/17 1:46
Tetrachloro-m-xylene [1]	106	30-150		9/22/17 1:46
Tetrachloro-m-xylene [2]	95.8	30-150		9/22/17 1:46

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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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:38	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.1	50-150		9/19/17 18:38

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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-1 Sampled: 9/8/2017 13:04

Sample ID: 17I0320-19

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	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2 Sampled: 9/8/2017 13:05

Sample ID: 17I0320-20

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	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/22/17 2:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.4	30-150		9/22/17 2:03
Decachlorobiphenyl [2]	106	30-150		9/22/17 2:03
Tetrachloro-m-xylene [1]	93.4	30-150		9/22/17 2:03
Tetrachloro-m-xylene [2]	87.9	30-150		9/22/17 2:03

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: 17I0320

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-2 Sampled: 9/8/2017 13:05

Sample ID: 17I0320-20

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	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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
17I0320-04 [WS-AOC-6-SO-10-2]	B186332	30.1	1.00	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186332	30.2	1.00	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186332	30.0	1.00	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186332	30.1	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186332	30.0	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186207	09/14/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186207	09/14/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186207	09/14/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186207	09/14/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186207	09/14/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186207	09/14/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186207	09/14/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186207	09/14/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186207	09/14/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186207	09/14/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186207	09/14/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186207	09/14/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186207	09/14/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186207	09/14/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186207	09/14/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186207	09/14/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186207	09/14/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186207	09/14/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186207	09/14/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186207	09/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-01 [WS-AOC-6-SO-16-3]	B186354	10.6	10.0	09/15/17
17I0320-02 [WS-AOC-6-SO-16-4]	B186354	10.0	10.0	09/15/17
17I0320-03 [WS-AOC-6-SO-10-1]	B186354	10.1	10.0	09/15/17
17I0320-04 [WS-AOC-6-SO-10-2]	B186354	10.4	10.0	09/15/17
17I0320-05 [WS-AOC-6-SO-10-3]	B186354	10.3	10.0	09/15/17
17I0320-06 [WS-AOC-6-SO-10-4]	B186354	10.3	10.0	09/15/17
17I0320-07 [WS-AOC-6-SO-15-1]	B186354	10.6	10.0	09/15/17
17I0320-08 [WS-AOC-6-SO-15-2]	B186354	10.3	10.0	09/15/17
17I0320-09 [WS-AOC-6-SO-15-3]	B186354	10.4	10.0	09/15/17
17I0320-10 [WS-AOC-6-SO-15-4]	B186354	10.7	10.0	09/15/17
17I0320-11 [WS-AOC-6-SO-9-1]	B186354	10.3	10.0	09/15/17
17I0320-12 [WS-AOC-6-SO-9-2]	B186354	10.0	10.0	09/15/17
17I0320-13 [WS-AOC-6-SO-9-3]	B186354	10.2	10.0	09/15/17
17I0320-14 [WS-AOC-6-SO-9-4]	B186354	10.7	10.0	09/15/17
17I0320-15 [WS-AOC-6-SO-14-1]	B186354	10.3	10.0	09/15/17
17I0320-16 [WS-AOC-6-SO-14-2]	B186354	10.7	10.0	09/15/17
17I0320-17 [WS-AOC-6-SO-14-3]	B186354	10.2	10.0	09/15/17
17I0320-18 [WS-AOC-6-SO-14-4]	B186354	10.1	10.0	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186354	10.0	10.0	09/15/17
17I0320-20 [WS-AOC-12W-SO-109-2]	B186354	10.5	10.0	09/15/17

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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-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0320-09 [WS-AOC-6-SO-15-3]	B186330	30.0	1.00	09/15/17
17I0320-19 [WS-AOC-12W-SO-109-1]	B186330	30.0	1.00	09/15/17

con-test® ANALYTICAL LABORATORY

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

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 B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
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	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	30-130			

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

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 B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	30-130			

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

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 B186354 - SW-846 3540C										
Blank (B186354-BLK1)				Prepared: 09/15/17 Analyzed: 09/21/17						
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	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			
LCS (B186354-BS1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.6	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.4	40-140			
Surrogate: Decachlorobiphenyl	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150			
LCS Dup (B186354-BSD1)				Prepared: 09/15/17 Analyzed: 09/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	7.08	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	7.30	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		72.0	40-140	12.2	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140	10.9	30	
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.197*		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		88.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.2	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 B186354 - SW-846 3540C											
Matrix Spike (B186354-MS1)		**Source: 17I0320-03**		Prepared: 09/15/17 Analyzed: 09/22/17							
Aroclor-1016	0.32	0.12	mg/Kg dry	0.294	ND	108		40-140			
Aroclor-1016 [2C]	0.32	0.12	mg/Kg dry	0.294	ND	108		40-140			
Aroclor-1260	0.76	0.12	mg/Kg dry	0.294	0.34	**143**	*	40-140			L-07
Aroclor-1260 [2C]	0.74	0.12	mg/Kg dry	0.294	0.33	140		40-140			
Surrogate: Decachlorobiphenyl	*0.265*		mg/Kg dry	0.294		90.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.306*		mg/Kg dry	0.294		104		30-150			
Surrogate: Tetrachloro-m-xylene	*0.282*		mg/Kg dry	0.294		96.0		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.272*		mg/Kg dry	0.294		92.5		30-150			
Matrix Spike Dup (B186354-MSD1)		**Source: 17I0320-03**		Prepared: 09/15/17 Analyzed: 09/22/17							
Aroclor-1016	0.34	0.12	mg/Kg dry	0.299	ND	113		40-140	6.37	50	
Aroclor-1016 [2C]	0.34	0.12	mg/Kg dry	0.299	ND	114		40-140	6.62	50	
Aroclor-1260	0.63	0.12	mg/Kg dry	0.299	0.34	97.0		40-140	18.7	50	
Aroclor-1260 [2C]	0.61	0.12	mg/Kg dry	0.299	0.33	95.4		40-140	18.7	50	
Surrogate: Decachlorobiphenyl	*0.255*		mg/Kg dry	0.299		85.4		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.298*		mg/Kg dry	0.299		99.8		30-150			
Surrogate: Tetrachloro-m-xylene	*0.296*		mg/Kg dry	0.299		99.3		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.286*		mg/Kg dry	0.299		95.8		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 B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-10-1

Lab Sample ID: 17I0320-03

Date(s) Analyzed: 09/21/2017 09/21/2017

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	0.34	
	2	0.000	-0.030	0.030	0.33	3.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-15-1

Lab Sample ID: 17I0320-07

Date(s) Analyzed: 09/22/2017 09/22/2017

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	2.9	
	2	0.000	-0.030	0.030	2.9	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-15-2

Lab Sample ID: 17I0320-08

Date(s) Analyzed: 09/21/2017 09/21/2017

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	0.51	
	2	0.000	-0.030	0.030	0.50	2.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-9-1

Lab Sample ID: 17I0320-11

Date(s) Analyzed: 09/22/2017 09/22/2017

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	0.094	
	2	0.000	-0.030	0.030	0.10	5.1
Aroclor-1268	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-14-1

Lab Sample ID: 17I0320-15

Date(s) Analyzed: 09/22/2017 09/22/2017

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-1248	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.90	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.98	
	2	0.000	-0.030	0.030	0.98	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-6-SO-14-2

Lab Sample ID: 17I0320-16

Date(s) Analyzed: 09/22/2017 09/22/2017

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-1248	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.38	0.0
Aroclor-1260	1	0.000	-0.030	0.030	1.4	
	2	0.000	-0.030	0.030	1.4	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.
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.

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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 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	09/30/2017
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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ 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	PCBs Soxhlet	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC-6-SO-16-3	9/8/17	1137		X	S	U	X			1	I	A
2	WS-AOC-6-SO-16-4		1139					X					
3	WS-AOC-6-SO-10-1		1153					X					
4	WS-AOC-6-SO-10-2		1154					X	X				
5	WS-AOC-6-SO-10-3		1155					X					
6	WS-AOC-6-SO-10-4		1156					X					
7	WS-AOC-6-SO-15-1		1157					X					
8	WS-AOC-6-SO-15-2		1159					X	X				
9	WS-AOC-6-SO-15-3		1159					X		X			
10	WS-AOC-6-SO-15-4		1200					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: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:45
Relinquished by: (signature)	Date/Time: 9/8/17 17:08
Received by: (signature)	Date/Time: 9/8/17 1708

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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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ 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	RCB, Soxhlet	ETPH	PAHs	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC-6-SO-9-1	9/8/17	1207		X	S	U	X					
12	WS-AOC-6-SO-9-2	↓	1205		↓	↓	↓	X	X				
13	WS-AOC-6-SO-9-3		1209					X					
14	WS-AOC-6-SO-9-4		1210					X					
15	WS-AOC-6-SO-14-1		1220					X					
16	WS-AOC-6-SO-14-2		1227					X	X				
17	WS-AOC-6-SO-14-3		1228					X					
18	WS-AOC-6-SO-14-4		1229					X					
19	WS-AOC-12W-SO-109-1		1304					X	X	X			
20	WS-AOC-12W-SO-109-2	↓	1305		↓	↓	↓	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: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:40
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1708

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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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 9/8/17 Time 1708

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 - 3.3, 5.6
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 Project T Analysis ID's T Sampler Name 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	70
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\A091817.SEC\A0918033.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918033.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	557715	584740	-5
c - 10	1.63	565511	584740	-3
c - 12	2.35	582479	584740	0
c - 14	3.01	593059	584740	1
c - 16	3.61	604433	584740	3
c - 18	4.23	595278	584740	2
o-Terphenyl	4.51	665550	584740	
c - 20	4.83	600772	584740	3
c - 22	5.33	607979	584740	4
c - 24	5.77	565808	584740	-3
c - 26	6.16	594595	584740	2
c - 28	6.52	587656	584740	0
c - 30	6.85	584471	584740	0
c - 32	7.16	572079	584740	-2
c - 34	7.45	578723	584740	-1
c - 36	7.77	580543	584740	-1

* One compound allowed %D <= 50%

Samples
17I0243-10@100X
17I0325-09@25X
17I0243-13@50X
17I0243-01@100X
17I0243-04@100X
17I0241-01
17I0241-19
17I0242-12
17I0244-20
17I0241-10

D:\HPCHEM\1\DATA\A091817.SEC\A0918007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/18/17
Data File Name	A0918007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	581338	613480	-5
c - 10	1.62	590044	613480	-4
c - 12	2.35	610454	613480	0
c - 14	3.01	623043	613480	2
c - 16	3.61	636307	613480	4
c - 18	4.22	627076	613480	2
o-Terphenyl	4.51	701281	613480	
c - 20	4.83	633341	613480	3
c - 22	5.33	641200	613480	5
c - 24	5.77	596838	613480	-3
c - 26	6.16	627131	613480	2
c - 28	6.52	618155	613480	1
c - 30	6.85	611718	613480	0
c - 32	7.16	596634	613480	-3
c - 34	7.45	602173	613480	-2
c - 36	7.77	606746	613480	-1

* One compound allowed %D <= 50%

Samples
17I0247-01
17I0247-02
17I0374-01
17I0240-10
17I0374-03
17I0234-03@5X
17I0234-08@5X

17

D:\HPCHEM\1\DATA\A091817.SEC\A0918085.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0918085.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	598055	624504	-4
c - 10	1.62	609412	624504	-2
c - 12	2.35	625871	624504	0
c - 14	3.01	635493	624504	2
c - 16	3.61	646457	624504	4
c - 18	4.22	635302	624504	2
o-Terphenyl	4.51	709050	624504	
c - 20	4.83	641129	624504	3
c - 22	5.33	647836	624504	4
c - 24	5.77	602062	624504	-4
c - 26	6.16	632014	624504	1
c - 28	6.52	624647	624504	0
c - 30	6.85	623289	624504	0
c - 32	7.16	611360	624504	-2
c - 34	7.45	617687	624504	-1
c - 36	7.77	616942	624504	-1

* One compound allowed %D <= 50%

Samples

17I0317-04
17I0317-12
17I0317-20
17I0320-04
17I0320-08
17I0320-16

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

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: 17I0320

Laboratory Sample ID(s):

17I0320-01 thru 17I0320-20

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, 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:** **09/22/17**

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 21, 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: 17I0321

Enclosed are results of analyses for samples received by the laboratory on September 8, 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: 9/21/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0321

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-12W-SO-109-3	17I0321-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-1	17I0321-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-108-2	17I0321-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-108-3	17I0321-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-1	17I0321-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-106-2	17I0321-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-106-3	17I0321-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP52	17I0321-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-DUP53	17I0321-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP54	17I0321-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP55	17I0321-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP56	17I0321-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP57	17I0321-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-6-SO-DUP58	17I0321-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-DUP59	17I0321-15	Soil		SM 2540G	
				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.

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

17I0321-02[WS-AOC-12W-SO-108-1]

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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

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	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 18:54	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.4	30-150		9/20/17 18:54
Decachlorobiphenyl [2]	89.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [1]	91.0	30-150		9/20/17 18:54
Tetrachloro-m-xylene [2]	94.3	30-150		9/20/17 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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-109-3 Sampled: 9/8/2017 13:06

Sample ID: 17I0321-01

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	58.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Acenaphthylene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Anthracene	0.37	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)anthracene	1.3	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(a)pyrene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(b)fluoranthene	1.4	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(g,h,i)perylene	0.63	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Benzo(k)fluoranthene	0.47	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Chrysene	1.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Dibenz(a,h)anthracene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluoranthene	3.2	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Fluorene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Indeno(1,2,3-cd)pyrene	0.71	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
2-Methylnaphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Naphthalene	ND	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Phenanthrene	1.7	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL
Pyrene	2.5	0.24	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 15:49	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.4	30-130		9/18/17 15:49
2-Fluorobiphenyl	74.2	30-130		9/18/17 15:49
p-Terphenyl-d14	79.3	30-130		9/18/17 15:49

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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

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	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:12	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		9/20/17 19:12
Decachlorobiphenyl [2]	78.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 19:12
Tetrachloro-m-xylene [2]	93.7	30-150		9/20/17 19:12

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1300	280	mg/Kg dry	20		CTDEP ETPH	9/15/17	9/20/17 3:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 3:29

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-1 Sampled: 9/8/2017 13:27

Sample ID: 17I0321-02

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	72.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

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	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:30	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.3	30-150		9/20/17 19:30
Decachlorobiphenyl [2]	69.6	30-150		9/20/17 19:30
Tetrachloro-m-xylene [1]	74.8	30-150		9/20/17 19:30
Tetrachloro-m-xylene [2]	79.2	30-150		9/20/17 19:30

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-2 Sampled: 9/8/2017 13:28

Sample ID: 17I0321-03

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	59.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

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	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 19:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.8	30-150		9/20/17 19:48
Decachlorobiphenyl [2]	91.4	30-150		9/20/17 19:48
Tetrachloro-m-xylene [1]	94.5	30-150		9/20/17 19:48
Tetrachloro-m-xylene [2]	95.9	30-150		9/20/17 19:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-108-3 Sampled: 9/8/2017 13:29

Sample ID: 17I0321-04

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	55.0		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

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	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)anthracene	0.95	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(a)pyrene	0.98	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(b)fluoranthene	1.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(g,h,i)perylene	0.57	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Benzo(k)fluoranthene	0.44	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Chrysene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluoranthene	2.2	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Indeno(1,2,3-cd)pyrene	0.63	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Naphthalene	0.32	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Phenanthrene	0.52	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL
Pyrene	2.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	55.7	30-130		9/18/17 16:14
2-Fluorobiphenyl	62.6	30-130		9/18/17 16:14
p-Terphenyl-d14	64.2	30-130		9/18/17 16:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

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	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		9/20/17 20:06
Decachlorobiphenyl [2]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [1]	87.6	30-150		9/20/17 20:06
Tetrachloro-m-xylene [2]	91.1	30-150		9/20/17 20:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	85	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 18:56	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.4	50-150		9/19/17 18:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-1 Sampled: 9/8/2017 14:23

Sample ID: 17I0321-05

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	58.6		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

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	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.7	30-150		9/20/17 20:24
Decachlorobiphenyl [2]	90.0	30-150		9/20/17 20:24
Tetrachloro-m-xylene [1]	87.2	30-150		9/20/17 20:24
Tetrachloro-m-xylene [2]	91.4	30-150		9/20/17 20:24

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-2 Sampled: 9/8/2017 14:24

Sample ID: 17I0321-06

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	61.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

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	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		9/20/17 20:41
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [1]	95.5	30-150		9/20/17 20:41
Tetrachloro-m-xylene [2]	97.2	30-150		9/20/17 20:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-106-3 Sampled: 9/8/2017 14:25

Sample ID: 17I0321-07

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	56.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

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	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 20:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.5	30-150		9/20/17 20:59
Decachlorobiphenyl [2]	89.4	30-150		9/20/17 20:59
Tetrachloro-m-xylene [1]	91.8	30-150		9/20/17 20:59
Tetrachloro-m-xylene [2]	94.7	30-150		9/20/17 20:59

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	80	mg/Kg dry	5		CTDEP ETPH	9/15/17	9/19/17 19:14	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	73.8	50-150		9/19/17 19:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP52 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-08

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	62.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

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	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 22:58	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		9/20/17 22:58
Decachlorobiphenyl [2]	93.5	30-150		9/20/17 22:58
Tetrachloro-m-xylene [1]	97.4	30-150		9/20/17 22:58
Tetrachloro-m-xylene [2]	100	30-150		9/20/17 22:58

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-15-SO-DUP53 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-09

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	60.9		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

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	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		9/20/17 23:15
Decachlorobiphenyl [2]	90.8	30-150		9/20/17 23:15
Tetrachloro-m-xylene [1]	90.1	30-150		9/20/17 23:15
Tetrachloro-m-xylene [2]	92.8	30-150		9/20/17 23:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP54 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-10

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	88.2		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

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	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1254 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1260 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/20/17 23:33
Decachlorobiphenyl [2]	86.8	30-150		9/20/17 23:33
Tetrachloro-m-xylene [1]	90.6	30-150		9/20/17 23:33
Tetrachloro-m-xylene [2]	93.0	30-150		9/20/17 23:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP55 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-11

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	83.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

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	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/15/17	9/20/17 23:50	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/20/17 23:50
Decachlorobiphenyl [2]	112	30-150		9/20/17 23:50
Tetrachloro-m-xylene [1]	77.5	30-150		9/20/17 23:50
Tetrachloro-m-xylene [2]	81.3	30-150		9/20/17 23:50

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP56 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-12

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	89.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

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	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:08	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.2	30-150		9/21/17 0:08
Decachlorobiphenyl [2]	92.0	30-150		9/21/17 0:08
Tetrachloro-m-xylene [1]	96.8	30-150		9/21/17 0:08
Tetrachloro-m-xylene [2]	100	30-150		9/21/17 0:08

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP57 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-13

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	81.8		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

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	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:26	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		9/21/17 0:26
Decachlorobiphenyl [2]	89.5	30-150		9/21/17 0:26
Tetrachloro-m-xylene [1]	95.1	30-150		9/21/17 0:26
Tetrachloro-m-xylene [2]	97.4	30-150		9/21/17 0:26

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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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-6-SO-DUP58 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-14

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	79.1		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

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	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	4		SW-846 8082A	9/15/17	9/21/17 0:43	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 0:43
Decachlorobiphenyl [2]	95.2	30-150		9/21/17 0:43
Tetrachloro-m-xylene [1]	92.1	30-150		9/21/17 0:43
Tetrachloro-m-xylene [2]	93.2	30-150		9/21/17 0:43

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: 17I0321

Date Received: 9/8/2017

Field Sample #: WS-AOC-12W-SO-DUP59 Sampled: 9/8/2017 00:00

Sample ID: 17I0321-15

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	57.7		% Wt	1		SM 2540G	9/14/17	9/15/17 8:05	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
17I0321-02 [WS-AOC-12W-SO-108-1]	B186332	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186332	30.1	1.00	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186332	30.1	1.00	09/15/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186207	09/14/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186207	09/14/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186207	09/14/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186207	09/14/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186207	09/14/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186207	09/14/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186207	09/14/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186207	09/14/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186207	09/14/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186207	09/14/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186207	09/14/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186207	09/14/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186207	09/14/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186207	09/14/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186207	09/14/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-01 [WS-AOC-12W-SO-109-3]	B186353	10.4	10.0	09/15/17
17I0321-02 [WS-AOC-12W-SO-108-1]	B186353	10.2	10.0	09/15/17
17I0321-03 [WS-AOC-12W-SO-108-2]	B186353	10.5	10.0	09/15/17
17I0321-04 [WS-AOC-12W-SO-108-3]	B186353	10.6	10.0	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186353	10.6	10.0	09/15/17
17I0321-06 [WS-AOC-12W-SO-106-2]	B186353	10.4	10.0	09/15/17
17I0321-07 [WS-AOC-12W-SO-106-3]	B186353	10.4	10.0	09/15/17
17I0321-08 [WS-AOC-15-SO-DUP52]	B186353	10.5	10.0	09/15/17
17I0321-09 [WS-AOC-15-SO-DUP53]	B186353	10.5	10.0	09/15/17
17I0321-10 [WS-AOC-6-SO-DUP54]	B186353	10.6	10.0	09/15/17
17I0321-11 [WS-AOC-6-SO-DUP55]	B186353	10.4	10.0	09/15/17
17I0321-12 [WS-AOC-6-SO-DUP56]	B186353	10.8	10.0	09/15/17
17I0321-13 [WS-AOC-6-SO-DUP57]	B186353	10.6	10.0	09/15/17
17I0321-14 [WS-AOC-6-SO-DUP58]	B186353	10.5	10.0	09/15/17
17I0321-15 [WS-AOC-12W-SO-DUP59]	B186353	10.3	10.0	09/15/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0321-02 [WS-AOC-12W-SO-108-1]	B186330	30.0	1.00	09/15/17
17I0321-05 [WS-AOC-12W-SO-106-1]	B186330	30.1	1.00	09/15/17

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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 B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
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	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	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 B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	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 B186353 - SW-846 3540C										
Blank (B186353-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
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	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.204*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.4	30-150			
LCS (B186353-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.3	40-140			
Surrogate: Decachlorobiphenyl	*0.171*		mg/Kg wet	0.200		85.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
LCS Dup (B186353-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	3.54	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.7	40-140	3.50	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	0.900	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.6	40-140	0.953	30	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg wet	0.200		82.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.170*		mg/Kg wet	0.200		84.9	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 B186332 - SW-846 3546										
Blank (B186332-BLK1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.07*		mg/Kg wet	3.33		92.1	50-150			
LCS (B186332-BS1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	28.2	10	mg/Kg wet	33.3		84.7	60-120			
Surrogate: o-Terphenyl	*3.55*		mg/Kg wet	3.33		106	50-150			
LCS Dup (B186332-BSD1)				Prepared: 09/15/17 Analyzed: 09/19/17						
CT ETPH	27.2	10	mg/Kg wet	33.3		81.5	60-120	3.82	30	
Surrogate: o-Terphenyl	*3.40*		mg/Kg wet	3.33		102	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 B186207 - % Solids										
Duplicate (B186207-DUP7)		**Source: 17I0321-01**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	55.2		% Wt		58.0			4.95	20	
Duplicate (B186207-DUP8)		**Source: 17I0321-02**		Prepared: 09/14/17 Analyzed: 09/15/17						
% Solids	67.5		% Wt		72.1			6.59	20	

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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 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	09/30/2017
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

17I0321

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ 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	Matrix Code	Conc Code	RCB, Soxhlet	EPH	PAHs									# of Containers / Preservation Code / Container Code
								1											# of Containers
								H											2 Preservation Code
								A											3 Container Code
1	WS-AOC-12W-SO-101-3	9/8/17	1300		X	S	U	X											
	~~[illegible]~~							X											
2	WS-AOC-12W-SO-103-1		1327					X	X	X									
3	WS-AOC-12W-SO-103-2		1328					X											
4	WS-AOC-12W-SO-103-3		1329					X											
5	WS-AOC-12W-SO-1001		1423					X	X	X									
6	WS-AOC-12W-SO-1002		1424					X											
7	WS-AOC-12W-SO-1003		1425					X											
8	WS-AOC-15-SO-DUP52		—					X	X										
9	WS-AOC-15-SO-DUP53		—					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: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15.45
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

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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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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17I0321

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 _____ 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	PCBs, Sumplet												# of Containers / [2] Preservation Code / [3] Container Code
								1												1
								H												2
								A												3
10	WS-ACC-6-30-DUP54	9/8/17	—		X	S	U	X												
11	WS ACC-6-30-DUP55	↓	—		↓	↓	↓	X												
12	WS-ACC-6-30-DUP56		—					X												
13	WS-ACC-6-30-DUP57		—					X												
14	WS-ACC-6-30-DUP58		—					X												
15	WS-ACC-12W-30-DUP59	↓	—		↓	↓	↓	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: 9/8/17 1520
Received by: (signature)	Date/Time: 9/8/17 1520
Relinquished by: (signature)	Date/Time: 9/8/17 1540
Received by: (signature)	Date/Time: 9/8/17 15:48
Relinquished by: (signature)	Date/Time: 9/8/17 17:07
Received by: (signature)	Date/Time: 9/8/17 1707

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.
East Longmeadow, MA. 01028
P: 413-525-2332
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 9/8/17 Time 1708

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 - 3.3, 5.6
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? 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	15
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\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

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: 17I0321

Laboratory Sample ID(s):

17I0321-01 thru 17I0321-15

Sample Date(s):

09/08/2017

List RCP Methods Used:

CTDEP ETPH, 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:** **09/21/17**

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 22, 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: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 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: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

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-15-SO-20-1	17I0378-01	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-2	17I0378-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-15-SO-20-3	17I0378-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-1	17I0378-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-2	17I0378-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-3	17I0378-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-9-SO-29-4	17I0378-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-1	17I0378-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-2	17I0378-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-112-3	17I0378-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-1	17I0378-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-2	17I0378-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-111-3	17I0378-13	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-105-1	17I0378-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-2	17I0378-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-105-3	17I0378-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-1	17I0378-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-110-2	17I0378-18	Soil		SM 2540G	
				SW-846 8082A	

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: 9/22/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0378

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-12W-SO-110-3	17I0378-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-1	17I0378-20	Soil		CTDEP ETPH	
				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 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

MS-09

Matrix spike recovery and/or matrix spike duplicate 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

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-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:

o-Terphenyl

17I0378-01[WS-AOC-15-SO-20-1]

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

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

Tetrachloro-m-xylene [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

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	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1260 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 17:45	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		9/21/17 17:45
Decachlorobiphenyl [2]	84.7	30-150		9/21/17 17:45
Tetrachloro-m-xylene [1]	86.2	30-150		9/21/17 17:45
Tetrachloro-m-xylene [2]	85.6	30-150		9/21/17 17:45

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2200	570	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:48	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:48

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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-1 Sampled: 9/11/2017 11:29

Sample ID: 17I0378-01

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	87.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

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	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:02	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.2	30-150		9/21/17 18:02
Decachlorobiphenyl [2]	98.5	30-150		9/21/17 18:02
Tetrachloro-m-xylene [1]	87.0	30-150		9/21/17 18:02
Tetrachloro-m-xylene [2]	88.7	30-150		9/21/17 18:02

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-2 Sampled: 9/11/2017 11:30

Sample ID: 17I0378-02

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	81.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

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	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 18:20	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.6	30-150		9/21/17 18:20
Decachlorobiphenyl [2]	90.2	30-150		9/21/17 18:20
Tetrachloro-m-xylene [1]	82.1	30-150		9/21/17 18:20
Tetrachloro-m-xylene [2]	79.8	30-150		9/21/17 18:20

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-15-SO-20-3 Sampled: 9/11/2017 11:31

Sample ID: 17I0378-03

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	72.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

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	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1221 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1232 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1242 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1248 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1254 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1260 [2]	78	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1262 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL
Aroclor-1268 [1]	ND	9.1	mg/Kg dry	400		SW-846 8082A	9/18/17	9/22/17 7:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 7:56
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 7:56
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 7:56

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1 Sampled: 9/11/2017 11:46

Sample ID: 17I0378-04

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	88.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

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	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1221 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1232 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1242 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1248 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1254 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1260 [2]	5.9	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1262 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL
Aroclor-1268 [1]	ND	0.89	mg/Kg dry	40		SW-846 8082A	9/18/17	9/22/17 8:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	*	30-150	S-01	9/22/17 8:08
Decachlorobiphenyl [2]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [1]	*	30-150	S-01	9/22/17 8:08
Tetrachloro-m-xylene [2]	*	30-150	S-01	9/22/17 8:08

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2 Sampled: 9/11/2017 11:47

Sample ID: 17I0378-05

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	90.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

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	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1260 [2]	0.11	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		9/21/17 19:12
Decachlorobiphenyl [2]	101	30-150		9/21/17 19:12
Tetrachloro-m-xylene [1]	91.9	30-150		9/21/17 19:12
Tetrachloro-m-xylene [2]	91.0	30-150		9/21/17 19:12

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3 Sampled: 9/11/2017 11:48

Sample ID: 17I0378-06

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	70.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

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	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		9/21/17 19:30
Decachlorobiphenyl [2]	107	30-150		9/21/17 19:30
Tetrachloro-m-xylene [1]	91.4	30-150		9/21/17 19:30
Tetrachloro-m-xylene [2]	91.3	30-150		9/21/17 19:30

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4 Sampled: 9/11/2017 11:49

Sample ID: 17I0378-07

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	68.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 19:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.5	30-150		9/21/17 19:47
Decachlorobiphenyl [2]	92.3	30-150		9/21/17 19:47
Tetrachloro-m-xylene [1]	91.0	30-150		9/21/17 19:47
Tetrachloro-m-xylene [2]	92.9	30-150		9/21/17 19:47

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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1 Sampled: 9/11/2017 12:15

Sample ID: 17I0378-08

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	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

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	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1260 [1]	0.12	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.5	30-150		9/21/17 20:05
Decachlorobiphenyl [2]	80.5	30-150		9/21/17 20:05
Tetrachloro-m-xylene [1]	72.3	30-150		9/21/17 20:05
Tetrachloro-m-xylene [2]	72.9	30-150		9/21/17 20:05

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2 Sampled: 9/11/2017 12:16

Sample ID: 17I0378-09

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	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

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	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1260 [2]	0.16	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		9/21/17 20:22
Decachlorobiphenyl [2]	81.2	30-150		9/21/17 20:22
Tetrachloro-m-xylene [1]	77.7	30-150		9/21/17 20:22
Tetrachloro-m-xylene [2]	80.2	30-150		9/21/17 20:22

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3 Sampled: 9/11/2017 12:17

Sample ID: 17I0378-10

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	87.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

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	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:39	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		9/21/17 20:39
Decachlorobiphenyl [2]	84.5	30-150		9/21/17 20:39
Tetrachloro-m-xylene [1]	87.9	30-150		9/21/17 20:39
Tetrachloro-m-xylene [2]	92.0	30-150		9/21/17 20:39

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1 Sampled: 9/11/2017 09:35

Sample ID: 17I0378-11

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	93.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		9/21/17 20:57
Decachlorobiphenyl [2]	86.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [1]	90.0	30-150		9/21/17 20:57
Tetrachloro-m-xylene [2]	97.9	30-150		9/21/17 20:57

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	91	52	mg/Kg dry	5	MS-09	CTDEP ETPH	9/18/17	9/20/17 1:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	83.2	50-150		9/20/17 1:43

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2 Sampled: 9/11/2017 09:36

Sample ID: 17I0378-12

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	96.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

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	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		9/21/17 23:04
Decachlorobiphenyl [2]	97.1	30-150		9/21/17 23:04
Tetrachloro-m-xylene [1]	93.3	30-150		9/21/17 23:04
Tetrachloro-m-xylene [2]	96.5	30-150		9/21/17 23:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.4	mg/Kg dry	1		SW-846 6010C-D	9/18/17	9/19/17 13:58	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3 Sampled: 9/11/2017 09:37

Sample ID: 17I0378-13

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	96.2		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

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	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1260 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:21	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.1	30-150		9/21/17 23:21
Decachlorobiphenyl [2]	94.2	30-150		9/21/17 23:21
Tetrachloro-m-xylene [1]	90.4	30-150		9/21/17 23:21
Tetrachloro-m-xylene [2]	89.7	30-150		9/21/17 23:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10		CTDEP ETPH	9/18/17	9/20/17 2:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	64.0	50-150		9/20/17 2:01

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1 Sampled: 9/11/2017 09:38

Sample ID: 17I0378-14

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	87.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

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	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/21/17 23:38
Decachlorobiphenyl [2]	83.7	30-150		9/21/17 23:38
Tetrachloro-m-xylene [1]	84.8	30-150		9/21/17 23:38
Tetrachloro-m-xylene [2]	90.9	30-150		9/21/17 23:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2 Sampled: 9/11/2017 09:39

Sample ID: 17I0378-15

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	93.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

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	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1221 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1232 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1242 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1248 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1254 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1260 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1262 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL
Aroclor-1268 [1]	ND	0.088	mg/Kg dry	4		SW-846 8082A	9/18/17	9/21/17 23:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.8	30-150		9/21/17 23:56
Decachlorobiphenyl [2]	50.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [1]	45.9	30-150		9/21/17 23:56
Tetrachloro-m-xylene [2]	44.6	30-150		9/21/17 23:56

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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3 Sampled: 9/11/2017 09:40

Sample ID: 17I0378-16

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	90.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

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	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.7	30-150		9/22/17 0:13
Decachlorobiphenyl [2]	78.4	30-150		9/22/17 0:13
Tetrachloro-m-xylene [1]	80.6	30-150		9/22/17 0:13
Tetrachloro-m-xylene [2]	85.8	30-150		9/22/17 0:13

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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1 Sampled: 9/11/2017 09:46

Sample ID: 17I0378-17

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	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

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	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1221 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1232 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1242 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1248 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1254 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1260 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1262 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL
Aroclor-1268 [1]	ND	0.081	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.1	30-150		9/22/17 0:31
Decachlorobiphenyl [2]	85.5	30-150		9/22/17 0:31
Tetrachloro-m-xylene [1]	82.3	30-150		9/22/17 0:31
Tetrachloro-m-xylene [2]	88.2	30-150		9/22/17 0:31

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2 Sampled: 9/11/2017 09:47

Sample ID: 17I0378-18

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	96.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

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	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 0:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.8	30-150		9/22/17 0:48
Decachlorobiphenyl [2]	89.4	30-150		9/22/17 0:48
Tetrachloro-m-xylene [1]	88.2	30-150		9/22/17 0:48
Tetrachloro-m-xylene [2]	92.8	30-150		9/22/17 0:48

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	66	53	mg/Kg dry	5		CTDEP ETPH	9/18/17	9/20/17 19:13	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	74.8	50-150		9/20/17 19:13

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3 Sampled: 9/11/2017 09:48

Sample ID: 17I0378-19

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	93.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

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	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1260 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/22/17 1:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		9/22/17 1:06
Decachlorobiphenyl [2]	87.4	30-150		9/22/17 1:06
Tetrachloro-m-xylene [1]	86.3	30-150		9/22/17 1:06
Tetrachloro-m-xylene [2]	91.6	30-150		9/22/17 1:06

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	23	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	79.8	50-150		9/20/17 7:54

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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: 17I0378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1 Sampled: 9/11/2017 09:54

Sample ID: 17I0378-20

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	93.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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
17I0378-01 [WS-AOC-15-SO-20-1]	B186472	30.2	1.00	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186472	30.0	1.00	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186472	30.0	1.00	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186472	30.1	1.00	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186472	30.1	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186437	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186437	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186437	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186437	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186437	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186437	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186437	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186437	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186437	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186437	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186437	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186437	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186437	09/18/17
17I0378-14 [WS-AOC-12W-SO-105-1]	B186437	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186437	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186437	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186437	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186437	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186437	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186437	09/18/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-13 [WS-AOC-12W-SO-111-3]	B186450	1.08	50.0	09/18/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0378-01 [WS-AOC-15-SO-20-1]	B186484	10.1	10.0	09/18/17
17I0378-02 [WS-AOC-15-SO-20-2]	B186484	10.2	10.0	09/18/17
17I0378-03 [WS-AOC-15-SO-20-3]	B186484	10.2	10.0	09/18/17
17I0378-04 [WS-AOC-9-SO-29-1]	B186484	10.0	10.0	09/18/17
17I0378-05 [WS-AOC-9-SO-29-2]	B186484	10.0	10.0	09/18/17
17I0378-06 [WS-AOC-9-SO-29-3]	B186484	10.2	10.0	09/18/17
17I0378-07 [WS-AOC-9-SO-29-4]	B186484	10.0	10.0	09/18/17
17I0378-08 [WS-AOC-12W-SO-112-1]	B186484	10.2	10.0	09/18/17
17I0378-09 [WS-AOC-12W-SO-112-2]	B186484	10.0	10.0	09/18/17
17I0378-10 [WS-AOC-12W-SO-112-3]	B186484	10.1	10.0	09/18/17
17I0378-11 [WS-AOC-12W-SO-111-1]	B186484	10.2	10.0	09/18/17
17I0378-12 [WS-AOC-12W-SO-111-2]	B186484	10.0	10.0	09/18/17
17I0378-13 [WS-AOC-12W-SO-111-3]	B186484	10.2	10.0	09/18/17

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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
17I0378-14 [WS-AOC-12W-SO-105-1]	B186484	10.1	10.0	09/18/17
17I0378-15 [WS-AOC-12W-SO-105-2]	B186484	10.0	10.0	09/18/17
17I0378-16 [WS-AOC-12W-SO-105-3]	B186484	10.0	10.0	09/18/17
17I0378-17 [WS-AOC-12W-SO-110-1]	B186484	10.0	10.0	09/18/17
17I0378-18 [WS-AOC-12W-SO-110-2]	B186484	10.2	10.0	09/18/17
17I0378-19 [WS-AOC-12W-SO-110-3]	B186484	10.2	10.0	09/18/17
17I0378-20 [WS-AOC-12W-SO-103-1]	B186484	10.0	10.0	09/18/17

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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 B186484 - SW-846 3540C										
Blank (B186484-BLK1)				Prepared: 09/18/17 Analyzed: 09/21/17						
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	*0.208*		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
LCS (B186484-BS1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.1	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.1	40-140			
Surrogate: Decachlorobiphenyl	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg wet	0.200		97.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.144*		mg/Kg wet	0.200		71.8	30-150			
LCS Dup (B186484-BSD1)				Prepared: 09/18/17 Analyzed: 09/21/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.6	40-140	1.78	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140	0.774	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.1	40-140	0.742	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.9	40-140	1.03	30	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg wet	0.200		99.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.9	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 B186484 - SW-846 3540C										
Matrix Spike (B186484-MS1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.086	mg/Kg dry	0.214	ND	80.3	40-140			
Aroclor-1016 [2C]	0.16	0.086	mg/Kg dry	0.214	ND	73.9	40-140			
Aroclor-1260	0.23	0.086	mg/Kg dry	0.214	0.12	52.2	40-140			
Aroclor-1260 [2C]	0.24	0.086	mg/Kg dry	0.214	0.11	62.4	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.214		77.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg dry	0.214		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.186*		mg/Kg dry	0.214		86.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg dry	0.214		86.8	30-150			
Matrix Spike (B186484-MS2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.17	0.081	mg/Kg dry	0.203	ND	85.4	40-140			
Aroclor-1016 [2C]	0.17	0.081	mg/Kg dry	0.203	ND	85.8	40-140			
Aroclor-1260	0.15	0.081	mg/Kg dry	0.203	ND	72.2	40-140			
Aroclor-1260 [2C]	0.15	0.081	mg/Kg dry	0.203	ND	73.8	40-140			
Surrogate: Decachlorobiphenyl	*0.155*		mg/Kg dry	0.203		76.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.178*		mg/Kg dry	0.203		87.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.203		92.8	30-150			
Matrix Spike (B186484-MS3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.20	0.085	mg/Kg dry	0.212	ND	92.3	40-140			
Aroclor-1016 [2C]	0.19	0.085	mg/Kg dry	0.212	ND	88.7	40-140			
Aroclor-1260	0.17	0.085	mg/Kg dry	0.212	ND	81.2	40-140			
Aroclor-1260 [2C]	0.18	0.085	mg/Kg dry	0.212	ND	84.9	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg dry	0.212		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg dry	0.212		92.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.212		96.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.212		98.8	30-150			
Matrix Spike (B186484-MS4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	91.0	40-140			
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	92.4	40-140			
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	76.5	40-140			
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	81.8	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.208		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg dry	0.208		85.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.208		91.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.208		101	30-150			
Matrix Spike Dup (B186484-MSD1)		**Source: 17I0378-09**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.16	0.085	mg/Kg dry	0.212	ND	76.7	40-140	5.63	50	
Aroclor-1016 [2C]	0.15	0.085	mg/Kg dry	0.212	ND	71.7	40-140	3.97	50	
Aroclor-1260	0.21	0.085	mg/Kg dry	0.212	0.12	41.2	40-140	11.2	50	
Aroclor-1260 [2C]	0.22	0.085	mg/Kg dry	0.212	0.11	52.1	40-140	10.1	50	
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.212		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.194*		mg/Kg dry	0.212		91.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.198*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.212		84.2	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 B186484 - SW-846 3540C										
Matrix Spike Dup (B186484-MSD2)		**Source: 17I0378-12**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.082	mg/Kg dry	0.205	ND	90.7	40-140	6.99	50	
Aroclor-1016 [2C]	0.19	0.082	mg/Kg dry	0.205	ND	90.8	40-140	6.64	50	
Aroclor-1260	0.15	0.082	mg/Kg dry	0.205	ND	74.5	40-140	4.12	50	
Aroclor-1260 [2C]	0.16	0.082	mg/Kg dry	0.205	ND	76.7	40-140	4.80	50	
Surrogate: Decachlorobiphenyl	*0.164*		mg/Kg dry	0.205		80.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.205		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.196*		mg/Kg dry	0.205		95.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.207*		mg/Kg dry	0.205		101	30-150			
Matrix Spike Dup (B186484-MSD3)		**Source: 17I0378-15**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.084	mg/Kg dry	0.210	ND	91.0	40-140	2.33	50	
Aroclor-1016 [2C]	0.19	0.084	mg/Kg dry	0.210	ND	90.7	40-140	1.20	50	
Aroclor-1260	0.16	0.084	mg/Kg dry	0.210	ND	77.5	40-140	5.58	50	
Aroclor-1260 [2C]	0.17	0.084	mg/Kg dry	0.210	ND	81.7	40-140	4.79	50	
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.210		78.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.210		85.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.210		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg dry	0.210		96.2	30-150			
Matrix Spike Dup (B186484-MSD4)		**Source: 17I0378-18**		Prepared: 09/18/17 Analyzed: 09/22/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.208	ND	89.7	40-140	1.51	50	
Aroclor-1016 [2C]	0.19	0.083	mg/Kg dry	0.208	ND	90.6	40-140	1.98	50	
Aroclor-1260	0.16	0.083	mg/Kg dry	0.208	ND	77.2	40-140	0.976	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.208	ND	83.5	40-140	2.09	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.208		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg dry	0.208		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg dry	0.208		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.208		93.3	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 B186472 - SW-846 3546											
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4		50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5		60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6		50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17							
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5		60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8		50-150			
Matrix Spike (B186472-MS1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	74.4	52	mg/Kg dry	34.4	91.1	**-48.7**	*	50-150			MS-09
Surrogate: o-Terphenyl	*2.70*		mg/Kg dry	3.44		78.4		50-150			
Matrix Spike Dup (B186472-MSD1)	**Source: 17I0378-12**			Prepared: 09/18/17 Analyzed: 09/20/17							
CT ETPH	67.0	52	mg/Kg dry	34.4	91.1	**-70.3**	*	50-150	10.5	30	MS-09
Surrogate: o-Terphenyl	*2.36*		mg/Kg dry	3.44		68.7		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 B186450 - SW-846 3050B										
Blank (B186450-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B186450-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	143	5.0	mg/Kg wet	157		90.9	77.8-122.1			
LCS Dup (B186450-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
Arsenic	146	4.8	mg/Kg wet	157		93.1	77.8-122.1	2.31	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 B186437 - % Solids										
Duplicate (B186437-DUP1)		**Source: 17I0378-09**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.2		% Wt		93.3			1.19	20	
Duplicate (B186437-DUP2)		**Source: 17I0378-12**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B186437-DUP3)		**Source: 17I0378-15**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	92.8		% Wt		93.5			0.751	20	
Duplicate (B186437-DUP4)		**Source: 17I0378-18**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	96.0		% Wt		96.3			0.312	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04

Date(s) Analyzed: 09/22/2017 09/22/2017

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	74	
	2	0.000	-0.030	0.030	78	5.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-9-SO-29-2

Lab Sample ID: 17I0378-05

Date(s) Analyzed: 09/22/2017 09/22/2017

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	5.7	
	2	0.000	-0.030	0.030	5.9	3.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-2

Lab Sample ID: 17I0378-09

Date(s) Analyzed: 09/21/2017 09/21/2017

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	0.12	
	2	0.000	-0.030	0.030	0.11	8.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-112-3

Lab Sample ID: 17I0378-10

Date(s) Analyzed: 09/21/2017 09/21/2017

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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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-09	Matrix spike recovery and/or matrix spike duplicate 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.
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	
Arsenic	CT,NH,NY,ME,VA,NC
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

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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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 5

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	PCB, Soxhlet	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
01	WS-AOC-15-SO-20-1	9/11/17	1129		X	S	U	X	X			
02	WS-AOC-15-SO-20-2	9/11/17	1130		X	S	U	X				
03	WS-AOC-15-SO-20-3	9/11/17	1131		X	S	U	X				
04	WS-AOC-9-SO-29-1	9/11/17	1146		X	S	U	X				
05	WS-AOC-9-SO-29-2	9/11/17	1147		X	S	U	X				
06	WS-AOC-9-SO-29-3	9/11/17	1148		X	S	U	X				
07	WS-AOC-9-SO-29-4	9/11/17	1149		X	S	U	X				
08	WS-AOC-12W-SO-112-1	9/11/17	1215		X	S	U	X				
09	WS-AOC-12W-SO-112-2	9/11/17	1216		X	S	U	X				
10	WS-AOC-12W-SO-112-3	9/11/17	1217		X	S	U	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 do MS/MSD for WS-AOC-12W-SO-112-2

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: 9/11/17 1445	
Received by: (signature)	Date/Time: 9/11/17 1445	
Relinquished by: (signature)	Date/Time: 9/11/17 1505	
Received by: (signature)	Date/Time: 9/11/17 1505	
Relinquished by: (signature)	Date/Time: 9/11/17 1630	
Received by: (signature) 2.3, 5.9	Date/Time: 9/11/17 1630	

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

Table of Contents

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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	PCBs Soxhlet	ETPH	Arsenic										# of Containers	[2] Preservation Code	[3] Container Code
								4	I	A												
11	WS-AOC-12W-SO-111-1	9/11/17	0935		X	S	U	X														
12	WS-AOC-12W-SO-111-2	9/11/17	0936		X	S	U	X	X													
13	WS-AOC-12W-SO-111-3	9/11/17	0937		X	S	U	X		X												
14	WS-AOC-12W-SO-105-1	9/11/17	0938		X	S	U	X	X													
15	WS-AOC-12W-SO-105-2	9/11/17	0939		X	S	U	X														
16	WS-AOC-12W-SO-105-3	9/11/17	0940		X	S	U	X														
17	WS-AOC-12W-SO-110-1	9/11/17	0946		X	S	U	X														
18	WS-AOC-12W-SO-110-2	9/11/17	0947		X	S	U	X														
19	WS-AOC-12W-SO-110-3	9/11/17	0948		X	S	U	X	X													
20	WS-AOC-12W-SO-103-1	9/11/17	0954		X	S	U	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.
Please do MS/MSD analysis for WS-AOC-12W-SO-111-2 for PCBs and ETPH, and for WS-AOC-12W-SO-105-2 for only PCBs, and WS-AOC-12W-SO-110-2 for PCBs

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: 9/11/17 1445
Received by: (signature)	Date/Time: 9/11/17 1445
Relinquished by: (signature)	Date/Time: 9/11/17 1505
Received by: (signature)	Date/Time: 9/11/17 1505
Relinquished by: (signature)	Date/Time: 9/11/17 430
Received by: (signature)	Date/Time: 9/11/17 1630

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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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 RLF Date 9/11/17 Time 1130

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 - 2.3°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~~ 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	28
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\A091917.SEC\A0919137.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0919137.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	620853	652710	-5
c - 10	1.63	631926	652710	-3
c - 12	2.34	650993	652710	0
c - 14	3.01	660660	652710	1
c - 16	3.61	672375	652710	3
c - 18	4.22	661082	652710	1
o-Terphenyl	4.51	734754	652710	
c - 20	4.83	666433	652710	2
c - 22	5.33	671692	652710	3
c - 24	5.77	624925	652710	-4
c - 26	6.16	658424	652710	1
c - 28	6.52	654250	652710	0
c - 30	6.85	655163	652710	0
c - 32	7.16	647569	652710	-1
c - 34	7.45	655759	652710	0
c - 36	7.76	658546	652710	1

* One compound allowed %D <= 50%

Samples

17I0378-20
17I0380-01
17I0380-03
17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919035.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	546711	576637	-5
c - 10	1.62	556905	576637	-3
c - 12	2.34	574213	576637	0
c - 14	3.01	583332	576637	1
c - 16	3.61	594004	576637	3
c - 18	4.23	585093	576637	1
o-Terphenyl	4.51	648324	576637	
c - 20	4.83	589878	576637	2
c - 22	5.33	595941	576637	3
c - 24	5.77	554361	576637	-4
c - 26	6.16	583067	576637	1
c - 28	6.52	578745	576637	0
c - 30	6.85	578910	576637	0
c - 32	7.16	570456	576637	-1
c - 34	7.45	576804	576637	0
c - 36	7.77	581137	576637	1

* One compound allowed %D <= 50%

Samples
17I0242-15@20X
17I0244-05@20X
17I0244-14@20X
17I0320-19@5X
17I0321-05@5X
17I0321-08@5X
17I0242-06@20X
17I0242-09@20X
17I0241-04@20X
17I0241-13@20X
17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/19/17
Data File Name	A0919081.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	601774	632314	-5
c - 10	1.63	612165	632314	-3
c - 12	2.35	630848	632314	0
c - 14	3.01	640223	632314	1
c - 16	3.61	651756	632314	3
c - 18	4.22	640680	632314	1
o-Terphenyl	4.51	710078	632314	
c - 20	4.83	645606	632314	2
c - 22	5.33	652240	632314	3
c - 24	5.77	606960	632314	-4
c - 26	6.16	638906	632314	1
c - 28	6.52	633560	632314	0
c - 30	6.85	633652	632314	0
c - 32	7.16	624927	632314	-1
c - 34	7.45	634184	632314	0
c - 36	7.77	637226	632314	1

* One compound allowed %D <= 50%

Samples
17I0531-03
17I0531-04
17I0656-01
17I0378-12@5X
17I0378-14@10X
17I0319-08@5X
17I0319-16@5X
17I0320-08@5X
17I0320-12@5X
17I0321-02@20X
17I0455-01@20X
17I0531-01
17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920031.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	541173	562711	-4
c - 10	1.62	549935	562711	-2
c - 12	2.34	566528	562711	1
c - 14	3.01	574189	562711	2
c - 16	3.61	582627	562711	4
c - 18	4.22	570510	562711	1
o-Terphenyl	4.51	631761	562711	
c - 20	4.83	572845	562711	2
c'- 22	5.33	578821	562711	3
c - 24	5.77	538783	562711	-4
c - 26	6.16	569323	562711	1
c - 28	6.52	564215	562711	0
c - 30	6.85	562306	562711	0
c - 32	7.16	552003	562711	-2
c - 34	7.45	557640	562711	-1
c - 36	7.76	559760	562711	-1

* One compound allowed %D </= 50%

Samples

17I0719-02@5X
17I0719-03@50X
17I0719-05@100X
17I0719-06@100X
17I0719-14@100X
17I0719-01@100X
17I0378-19@5X
17I0379-03@50X
17I0378-01@50X
17I0380-04@5X
17I0380-06@20X
17I0380-02@10X
17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	9/20/17
Data File Name	A0920079.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	593179	621951	-5
c - 10	1.62	601870	621951	-3
c - 12	2.34	620530	621951	0
c - 14	3.01	631091	621951	1
c - 16	3.61	641967	621951	3
c - 18	4.22	630375	621951	1
o-Terphenyl	4.51	697469	621951	
c - 20	4.83	634151	621951	2
c - 22	5.33	640559	621951	3
c - 24	5.77	596341	621951	-4
c - 26	6.16	629258	621951	1
c - 28	6.52	625172	621951	1
c - 30	6.85	625957	621951	1
c - 32	7.16	616353	621951	-1
c - 34	7.45	620644	621951	0
c - 36	7.76	621823	621951	0

* One compound allowed %D </= 50%

Samples

17I0517-04
17I0517-09
17I0517-12
17I0462-04
17I0462-17
17I0462-20
17I0463-12
17I0241-10RE1@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: 17I0378

Laboratory Sample ID(s):

17I0378-01 thru 17I0378-20

Sample Date(s):

09/11/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, 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:** **09/22/17**

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 25, 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: 17I0379

Enclosed are results of analyses for samples received by the laboratory on September 11, 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: 9/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0379

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-12W-SO-103-2	17I0379-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-103-3	17I0379-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-107-1	17I0379-03	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-107-2	17I0379-04	Soil		SM 2540G	
				SW-846 8082A	
				SW-846 8270D	
WS-AOC-12W-SO-107-3	17I0379-05	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-102-1	17I0379-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-102-2	17I0379-07	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-102-3	17I0379-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-104-1	17I0379-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-104-2	17I0379-10	Soil		SM 2540G	
				SW-846 6010C-D	
				SW-846 8082A	
WS-AOC-12W-SO-104-3	17I0379-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-1	17I0379-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-2	17I0379-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-101-3	17I0379-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-100-1	17I0379-15	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-100-2	17I0379-16	Soil		SM 2540G	
				SW-846 8082A	

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: 9/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17I0379

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-12W-SO-100-3	17I0379-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-1	17I0379-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-2	17I0379-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC-12W-SO-99-3	17I0379-20	Soil		SM 2540G	
				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.
For method 6010, only As was 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
17I0379-03[WS-AOC-12W-SO-107-1]

SW-846 6010C-D

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

Arsenic
17I0379-07RE1[WS-AOC-12W-SO-102-2], B186711-MS1, B186711-MSD1

SW-846 8082A

Qualifications:

S-02

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17I0379-03[WS-AOC-12W-SO-107-1]

S-12

Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17I0379-03[WS-AOC-12W-SO-107-1]

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.

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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-2 Sampled: 9/11/2017 09:55

Sample ID: 17I0379-01

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	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.2	30-150		9/23/17 17:15
Decachlorobiphenyl [2]	83.6	30-150		9/23/17 17:15
Tetrachloro-m-xylene [1]	80.1	30-150		9/23/17 17:15
Tetrachloro-m-xylene [2]	78.1	30-150		9/23/17 17:15

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-2 Sampled: 9/11/2017 09:55

Sample ID: 17I0379-01

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	92.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-3 Sampled: 9/11/2017 09:56

Sample ID: 17I0379-02

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	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1254 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1260 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.6	30-150		9/23/17 17:32
Decachlorobiphenyl [2]	95.0	30-150		9/23/17 17:32
Tetrachloro-m-xylene [1]	98.8	30-150		9/23/17 17:32
Tetrachloro-m-xylene [2]	95.4	30-150		9/23/17 17:32

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-3 Sampled: 9/11/2017 09:56

Sample ID: 17I0379-02

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	82.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

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	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 17:50	JMB

Surrogates	% Recovery		Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.2		30-150		9/23/17 17:50
Decachlorobiphenyl [2]	**152**	*	30-150	S-02, S-12	9/23/17 17:50
Tetrachloro-m-xylene [1]	80.3		30-150		9/23/17 17:50
Tetrachloro-m-xylene [2]	81.6		30-150		9/23/17 17:50

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2400	770	mg/Kg dry	50		CTDEP ETPH	9/18/17	9/20/17 19:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	9/20/17 19:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-1 Sampled: 9/11/2017 10:11

Sample ID: 17I0379-03

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	64.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

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	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Acenaphthylene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(a)anthracene	0.86	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(a)pyrene	0.92	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(b)fluoranthene	1.0	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(g,h,i)perylene	0.51	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Benzo(k)fluoranthene	0.36	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Chrysene	0.80	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Dibenz(a,h)anthracene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Fluoranthene	1.8	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Fluorene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Indeno(1,2,3-cd)pyrene	0.54	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
2-Methylnaphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Naphthalene	ND	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Phenanthrene	0.75	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL
Pyrene	1.7	0.29	mg/Kg dry	1		SW-846 8270D	9/15/17	9/18/17 16:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	60.1	30-130		9/18/17 16:39
2-Fluorobiphenyl	71.4	30-130		9/18/17 16:39
p-Terphenyl-d14	80.7	30-130		9/18/17 16:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

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	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		9/23/17 18:07
Decachlorobiphenyl [2]	94.3	30-150		9/23/17 18:07
Tetrachloro-m-xylene [1]	95.0	30-150		9/23/17 18:07
Tetrachloro-m-xylene [2]	91.9	30-150		9/23/17 18:07

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-2 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-04

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	58.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

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	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.5	30-150		9/23/17 18:24
Decachlorobiphenyl [2]	107	30-150		9/23/17 18:24
Tetrachloro-m-xylene [1]	92.3	30-150		9/23/17 18:24
Tetrachloro-m-xylene [2]	89.3	30-150		9/23/17 18:24

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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	3.6	mg/Kg dry	1		SW-846 6010C-D	9/19/17	9/20/17 13:24	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-107-3 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-05

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	70.5		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

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	9/18/17	9/23/17 18:41	JMB
Aroclor-1221 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1232 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1242 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1248 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1254 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1260 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1262 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB
Aroclor-1268 [1]	ND	0.086	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		9/23/17 18:41
Decachlorobiphenyl [2]	92.3	30-150		9/23/17 18:41
Tetrachloro-m-xylene [1]	94.2	30-150		9/23/17 18:41
Tetrachloro-m-xylene [2]	91.4	30-150		9/23/17 18:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	44	11	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 7:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	99.1	50-150		9/20/17 7:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-1 Sampled: 9/11/2017 10:04

Sample ID: 17I0379-06

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	93.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

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	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 18:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		9/23/17 18:59
Decachlorobiphenyl [2]	81.0	30-150		9/23/17 18:59
Tetrachloro-m-xylene [1]	82.4	30-150		9/23/17 18:59
Tetrachloro-m-xylene [2]	78.7	30-150		9/23/17 18:59

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	90	2.7	mg/Kg dry	1	MS-12	SW-846 6010C-D	9/20/17	9/21/17 11:22	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-2 Sampled: 9/11/2017 10:05

Sample ID: 17I0379-07

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	91.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-3 Sampled: 9/11/2017 10:06

Sample ID: 17I0379-08

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	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.3	30-150		9/23/17 20:03
Decachlorobiphenyl [2]	89.8	30-150		9/23/17 20:03
Tetrachloro-m-xylene [1]	99.3	30-150		9/23/17 20:03
Tetrachloro-m-xylene [2]	93.0	30-150		9/23/17 20:03

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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-102-3 Sampled: 9/11/2017 10:06

Sample ID: 17I0379-08

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	86.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		9/23/17 20:20
Decachlorobiphenyl [2]	106	30-150		9/23/17 20:20
Tetrachloro-m-xylene [1]	105	30-150		9/23/17 20:20
Tetrachloro-m-xylene [2]	101	30-150		9/23/17 20:20

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	20	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	97.2	50-150		9/20/17 8:12

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-1 Sampled: 9/11/2017 10:12

Sample ID: 17I0379-09

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	95.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

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	9/18/17	9/23/17 20:37	JMB
Aroclor-1221 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1232 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1242 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1248 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1254 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1260 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1262 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB
Aroclor-1268 [1]	ND	0.082	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.3	30-150		9/23/17 20:37
Decachlorobiphenyl [2]	106	30-150		9/23/17 20:37
Tetrachloro-m-xylene [1]	99.8	30-150		9/23/17 20:37
Tetrachloro-m-xylene [2]	96.3	30-150		9/23/17 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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	3.6	2.6	mg/Kg dry	1		SW-846 6010C-D	9/20/17	9/21/17 11:53	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-2 Sampled: 9/11/2017 10:13

Sample ID: 17I0379-10

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	96.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-3 Sampled: 9/11/2017 10:14

Sample ID: 17I0379-11

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	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1260 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 20:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		9/23/17 20:54
Decachlorobiphenyl [2]	103	30-150		9/23/17 20:54
Tetrachloro-m-xylene [1]	100	30-150		9/23/17 20:54
Tetrachloro-m-xylene [2]	96.3	30-150		9/23/17 20:54

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-104-3 Sampled: 9/11/2017 10:14

Sample ID: 17I0379-11

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	85.7		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.9	30-150		9/23/17 21:12
Decachlorobiphenyl [2]	100	30-150		9/23/17 21:12
Tetrachloro-m-xylene [1]	98.2	30-150		9/23/17 21:12
Tetrachloro-m-xylene [2]	94.3	30-150		9/23/17 21:12

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	15	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:30	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	95.9	50-150		9/20/17 8:30

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-1 Sampled: 9/11/2017 10:25

Sample ID: 17I0379-12

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	95.9		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-2 Sampled: 9/11/2017 10:26

Sample ID: 17I0379-13

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.7	30-150		9/23/17 21:29
Decachlorobiphenyl [2]	108	30-150		9/23/17 21:29
Tetrachloro-m-xylene [1]	101	30-150		9/23/17 21:29
Tetrachloro-m-xylene [2]	97.4	30-150		9/23/17 21:29

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-2 Sampled: 9/11/2017 10:26

Sample ID: 17I0379-13

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	95.4		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-3 Sampled: 9/11/2017 10:27

Sample ID: 17I0379-14

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 21:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		9/23/17 21:46
Decachlorobiphenyl [2]	97.8	30-150		9/23/17 21:46
Tetrachloro-m-xylene [1]	97.7	30-150		9/23/17 21:46
Tetrachloro-m-xylene [2]	91.6	30-150		9/23/17 21:46

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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-101-3 Sampled: 9/11/2017 10:27

Sample ID: 17I0379-14

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	94.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		9/23/17 22:03
Decachlorobiphenyl [2]	104	30-150		9/23/17 22:03
Tetrachloro-m-xylene [1]	99.3	30-150		9/23/17 22:03
Tetrachloro-m-xylene [2]	97.8	30-150		9/23/17 22:03

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	28	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 8:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	93.7	50-150		9/20/17 8:47

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-1 Sampled: 9/11/2017 10:32

Sample ID: 17I0379-15

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	95.8		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-2 Sampled: 9/11/2017 10:33

Sample ID: 17I0379-16

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	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1221 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1232 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1242 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1248 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1254 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1260 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1262 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB
Aroclor-1268 [1]	ND	0.087	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		9/23/17 22:20
Decachlorobiphenyl [2]	117	30-150		9/23/17 22:20
Tetrachloro-m-xylene [1]	111	30-150		9/23/17 22:20
Tetrachloro-m-xylene [2]	108	30-150		9/23/17 22:20

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-2 Sampled: 9/11/2017 10:33

Sample ID: 17I0379-16

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	91.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-3 Sampled: 9/11/2017 10:34

Sample ID: 17I0379-17

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	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1221 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1232 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1242 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1248 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1254 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1260 [2]	0.37	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1262 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB
Aroclor-1268 [1]	ND	0.092	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 22:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.8	30-150		9/23/17 22:38
Decachlorobiphenyl [2]	111	30-150		9/23/17 22:38
Tetrachloro-m-xylene [1]	109	30-150		9/23/17 22:38
Tetrachloro-m-xylene [2]	107	30-150		9/23/17 22:38

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-100-3 Sampled: 9/11/2017 10:34

Sample ID: 17I0379-17

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	86.6		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

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	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1221 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1232 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1242 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1248 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1254 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1260 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1262 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB
Aroclor-1268 [1]	ND	0.083	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.7	30-150		9/23/17 23:42
Decachlorobiphenyl [2]	91.5	30-150		9/23/17 23:42
Tetrachloro-m-xylene [1]	98.6	30-150		9/23/17 23:42
Tetrachloro-m-xylene [2]	96.9	30-150		9/23/17 23:42

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	17	10	mg/Kg dry	1		CTDEP ETPH	9/18/17	9/20/17 9:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	90.4	50-150		9/20/17 9:05

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-1 Sampled: 9/11/2017 10:37

Sample ID: 17I0379-18

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	96.1		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-2 Sampled: 9/11/2017 10:38

Sample ID: 17I0379-19

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	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1221 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1232 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1242 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1248 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1254 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1260 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1262 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB
Aroclor-1268 [1]	ND	0.084	mg/Kg dry	4		SW-846 8082A	9/18/17	9/23/17 23:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		9/23/17 23:59
Decachlorobiphenyl [2]	93.1	30-150		9/23/17 23:59
Tetrachloro-m-xylene [1]	91.6	30-150		9/23/17 23:59
Tetrachloro-m-xylene [2]	89.0	30-150		9/23/17 23:59

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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-2 Sampled: 9/11/2017 10:38

Sample ID: 17I0379-19

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	94.3		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-3 Sampled: 9/11/2017 10:39

Sample ID: 17I0379-20

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	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1221 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1232 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1242 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1248 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1254 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1260 [1]	0.16	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1262 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB
Aroclor-1268 [1]	ND	0.085	mg/Kg dry	4		SW-846 8082A	9/18/17	9/24/17 0:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		9/24/17 0:16
Decachlorobiphenyl [2]	78.5	30-150		9/24/17 0:16
Tetrachloro-m-xylene [1]	87.7	30-150		9/24/17 0:16
Tetrachloro-m-xylene [2]	85.1	30-150		9/24/17 0:16

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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: 17I0379

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-99-3 Sampled: 9/11/2017 10:39

Sample ID: 17I0379-20

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	94.0		% Wt	1		SM 2540G	9/18/17	9/19/17 8:23	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
17I0379-03 [WS-AOC-12W-SO-107-1]	B186472	30.3	1.00	09/18/17
17I0379-06 [WS-AOC-12W-SO-102-1]	B186472	30.0	1.00	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186472	30.1	1.00	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186472	30.1	1.00	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186472	30.1	1.00	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186472	30.0	1.00	09/18/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17I0379-01 [WS-AOC-12W-SO-103-2]	B186437	09/18/17
17I0379-02 [WS-AOC-12W-SO-103-3]	B186437	09/18/17
17I0379-03 [WS-AOC-12W-SO-107-1]	B186437	09/18/17
17I0379-04 [WS-AOC-12W-SO-107-2]	B186437	09/18/17
17I0379-05 [WS-AOC-12W-SO-107-3]	B186437	09/18/17
17I0379-06 [WS-AOC-12W-SO-102-1]	B186437	09/18/17
17I0379-07 [WS-AOC-12W-SO-102-2]	B186437	09/18/17
17I0379-08 [WS-AOC-12W-SO-102-3]	B186437	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186437	09/18/17
17I0379-10 [WS-AOC-12W-SO-104-2]	B186437	09/18/17
17I0379-11 [WS-AOC-12W-SO-104-3]	B186437	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186437	09/18/17
17I0379-13 [WS-AOC-12W-SO-101-2]	B186437	09/18/17
17I0379-14 [WS-AOC-12W-SO-101-3]	B186437	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186437	09/18/17
17I0379-16 [WS-AOC-12W-SO-100-2]	B186437	09/18/17
17I0379-17 [WS-AOC-12W-SO-100-3]	B186437	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186437	09/18/17
17I0379-19 [WS-AOC-12W-SO-99-2]	B186437	09/18/17
17I0379-20 [WS-AOC-12W-SO-99-3]	B186437	09/18/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-05 [WS-AOC-12W-SO-107-3]	B186566	0.990	50.0	09/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-07RE1 [WS-AOC-12W-SO-102-2]	B186711	1.02	50.0	09/20/17
17I0379-10RE1 [WS-AOC-12W-SO-104-2]	B186711	1.00	50.0	09/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-01 [WS-AOC-12W-SO-103-2]	B186483	10.0	10.0	09/18/17
17I0379-02 [WS-AOC-12W-SO-103-3]	B186483	10.0	10.0	09/18/17
17I0379-03 [WS-AOC-12W-SO-107-1]	B186483	10.0	10.0	09/18/17
17I0379-04 [WS-AOC-12W-SO-107-2]	B186483	10.1	10.0	09/18/17
17I0379-05 [WS-AOC-12W-SO-107-3]	B186483	10.1	10.0	09/18/17

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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
17I0379-06 [WS-AOC-12W-SO-102-1]	B186483	10.0	10.0	09/18/17
17I0379-07 [WS-AOC-12W-SO-102-2]	B186483	10.0	10.0	09/18/17
17I0379-08 [WS-AOC-12W-SO-102-3]	B186483	10.1	10.0	09/18/17
17I0379-09 [WS-AOC-12W-SO-104-1]	B186483	10.1	10.0	09/18/17
17I0379-10 [WS-AOC-12W-SO-104-2]	B186483	10.1	10.0	09/18/17
17I0379-11 [WS-AOC-12W-SO-104-3]	B186483	10.1	10.0	09/18/17
17I0379-12 [WS-AOC-12W-SO-101-1]	B186483	10.1	10.0	09/18/17
17I0379-13 [WS-AOC-12W-SO-101-2]	B186483	10.1	10.0	09/18/17
17I0379-14 [WS-AOC-12W-SO-101-3]	B186483	10.1	10.0	09/18/17
17I0379-15 [WS-AOC-12W-SO-100-1]	B186483	10.1	10.0	09/18/17
17I0379-16 [WS-AOC-12W-SO-100-2]	B186483	10.0	10.0	09/18/17
17I0379-17 [WS-AOC-12W-SO-100-3]	B186483	10.0	10.0	09/18/17
17I0379-18 [WS-AOC-12W-SO-99-1]	B186483	10.1	10.0	09/18/17
17I0379-19 [WS-AOC-12W-SO-99-2]	B186483	10.1	10.0	09/18/17
17I0379-20 [WS-AOC-12W-SO-99-3]	B186483	10.0	10.0	09/18/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17I0379-04 [WS-AOC-12W-SO-107-2]	B186330	30.0	1.00	09/15/17

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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 B186330 - SW-846 3546										
Blank (B186330-BLK1)				Prepared: 09/15/17 Analyzed: 09/18/17						
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	*2.21*		mg/Kg wet	3.33		66.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.58*		mg/Kg wet	3.33		77.3	30-130			
Surrogate: p-Terphenyl-d14	*3.26*		mg/Kg wet	3.33		97.9	30-130			
LCS (B186330-BS1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.884	0.17	mg/Kg wet	1.67		53.1	40-140			
Acenaphthylene	0.912	0.17	mg/Kg wet	1.67		54.7	40-140			
Anthracene	0.978	0.17	mg/Kg wet	1.67		58.7	40-140			
Benzo(a)anthracene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140			
Benzo(a)pyrene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140			
Benzo(b)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Benzo(g,h,i)perylene	1.03	0.17	mg/Kg wet	1.67		62.1	40-140			
Benzo(k)fluoranthene	0.961	0.17	mg/Kg wet	1.67		57.7	40-140			
Chrysene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Dibenz(a,h)anthracene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
Fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	0.994	0.17	mg/Kg wet	1.67		59.7	40-140			
Indeno(1,2,3-cd)pyrene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
2-Methylnaphthalene	1.08	0.17	mg/Kg wet	1.67		65.1	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.6	40-140			
Phenanthrene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140			
Pyrene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140			
Surrogate: Nitrobenzene-d5	*2.22*		mg/Kg wet	3.33		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*2.58*		mg/Kg wet	3.33		77.3	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 B186330 - SW-846 3546										
LCS Dup (B186330-BSD1)				Prepared: 09/15/17 Analyzed: 09/18/17						
Acenaphthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	8.72	30	
Acenaphthylene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	8.17	30	
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140	6.98	30	
Benzo(a)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	10.1	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	9.44	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	5.30	30	
Benzo(g,h,i)perylene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	7.53	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140	6.28	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	9.46	30	
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140	7.48	30	
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.7	40-140	6.70	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	6.74	30	
Indeno(1,2,3-cd)pyrene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140	10.7	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.5	40-140	3.68	30	
Naphthalene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140	1.04	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	5.63	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	7.85	30	
Surrogate: Nitrobenzene-d5	*2.21*		mg/Kg wet	3.33		66.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.53*		mg/Kg wet	3.33		75.8	30-130			
Surrogate: p-Terphenyl-d14	*3.76*		mg/Kg wet	3.33		113	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 B186483 - SW-846 3540C										
Blank (B186483-BLK1)				Prepared: 09/18/17 Analyzed: 09/23/17						
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	*0.175*		mg/Kg wet	0.200		87.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		86.8	30-150			
LCS (B186483-BS1)				Prepared: 09/18/17 Analyzed: 09/23/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.8	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.3	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.0	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		80.8	40-140			
Surrogate: Decachlorobiphenyl	*0.170*		mg/Kg wet	0.200		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.201*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		85.8	30-150			
LCS Dup (B186483-BSD1)				Prepared: 09/18/17 Analyzed: 09/23/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.7	40-140	6.24	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		82.6	40-140	6.59	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.5	40-140	5.65	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		76.9	40-140	4.86	30	
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.196*		mg/Kg wet	0.200		97.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg wet	0.200		85.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.4	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 B186483 - SW-846 3540C										
Matrix Spike (B186483-MS1)		**Source: 17I0379-13**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.083	mg/Kg dry	0.207	ND	107	40-140			
Aroclor-1016 [2C]	0.22	0.083	mg/Kg dry	0.207	ND	108	40-140			
Aroclor-1260	0.20	0.083	mg/Kg dry	0.207	ND	96.4	40-140			
Aroclor-1260 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	94.9	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg dry	0.207		87.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.213*		mg/Kg dry	0.207		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg dry	0.207		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg dry	0.207		97.1	30-150			
Matrix Spike (B186483-MS2)		**Source: 17I0379-07**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.20	0.087	mg/Kg dry	0.218	ND	93.2	40-140			
Aroclor-1016 [2C]	0.21	0.087	mg/Kg dry	0.218	ND	95.2	40-140			
Aroclor-1260	0.18	0.087	mg/Kg dry	0.218	ND	81.7	40-140			
Aroclor-1260 [2C]	0.18	0.087	mg/Kg dry	0.218	ND	81.6	40-140			
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg dry	0.218		79.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.206*		mg/Kg dry	0.218		94.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.203*		mg/Kg dry	0.218		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg dry	0.218		89.8	30-150			
Matrix Spike (B186483-MS3)		**Source: 17I0379-10**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.19	0.083	mg/Kg dry	0.207	ND	92.6	40-140			
Aroclor-1016 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	97.4	40-140			
Aroclor-1260	0.19	0.083	mg/Kg dry	0.207	ND	92.2	40-140			
Aroclor-1260 [2C]	0.19	0.083	mg/Kg dry	0.207	ND	91.1	40-140			
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg dry	0.207		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.208*		mg/Kg dry	0.207		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg dry	0.207		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg dry	0.207		83.6	30-150			
Matrix Spike (B186483-MS4)		**Source: 17I0379-01**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.18	0.086	mg/Kg dry	0.215	ND	85.2	40-140			
Aroclor-1016 [2C]	0.19	0.086	mg/Kg dry	0.215	ND	88.2	40-140			
Aroclor-1260	0.17	0.086	mg/Kg dry	0.215	ND	79.0	40-140			
Aroclor-1260 [2C]	0.17	0.086	mg/Kg dry	0.215	ND	78.8	40-140			
Surrogate: Decachlorobiphenyl	*0.162*		mg/Kg dry	0.215		75.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg dry	0.215		88.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg dry	0.215		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.179*		mg/Kg dry	0.215		83.3	30-150			
Matrix Spike Dup (B186483-MSD1)		**Source: 17I0379-13**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.083	mg/Kg dry	0.209	ND	104	40-140	1.83	50	
Aroclor-1016 [2C]	0.22	0.083	mg/Kg dry	0.209	ND	107	40-140	0.519	50	
Aroclor-1260	0.21	0.083	mg/Kg dry	0.209	ND	100	40-140	4.51	50	
Aroclor-1260 [2C]	0.21	0.083	mg/Kg dry	0.209	ND	99.4	40-140	5.51	50	
Surrogate: Decachlorobiphenyl	*0.192*		mg/Kg dry	0.209		92.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.223*		mg/Kg dry	0.209		107	30-150			
Surrogate: Tetrachloro-m-xylene	*0.216*		mg/Kg dry	0.209		104	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.209*		mg/Kg dry	0.209		100	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 B186483 - SW-846 3540C										
Matrix Spike Dup (B186483-MSD2)		**Source: 17I0379-07**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.22	0.088	mg/Kg dry	0.219	ND	99.3	40-140	6.52	50	
Aroclor-1016 [2C]	0.24	0.088	mg/Kg dry	0.219	ND	108	40-140	12.4	50	
Aroclor-1260	0.20	0.088	mg/Kg dry	0.219	ND	90.6	40-140	10.5	50	
Aroclor-1260 [2C]	0.20	0.088	mg/Kg dry	0.219	ND	90.2	40-140	10.2	50	
Surrogate: Decachlorobiphenyl	*0.197*		mg/Kg dry	0.219		89.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.232*		mg/Kg dry	0.219		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.226*		mg/Kg dry	0.219		103	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.215*		mg/Kg dry	0.219		98.0	30-150			
Matrix Spike Dup (B186483-MSD3)		**Source: 17I0379-10**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.21	0.083	mg/Kg dry	0.207	ND	99.4	40-140	7.01	50	
Aroclor-1016 [2C]	0.20	0.083	mg/Kg dry	0.207	ND	98.7	40-140	1.38	50	
Aroclor-1260	0.18	0.083	mg/Kg dry	0.207	ND	85.4	40-140	7.67	50	
Aroclor-1260 [2C]	0.17	0.083	mg/Kg dry	0.207	ND	83.7	40-140	8.46	50	
Surrogate: Decachlorobiphenyl	*0.161*		mg/Kg dry	0.207		77.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.207		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg dry	0.207		95.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg dry	0.207		91.1	30-150			
Matrix Spike Dup (B186483-MSD4)		**Source: 17I0379-01**		Prepared: 09/18/17 Analyzed: 09/24/17						
Aroclor-1016	0.21	0.086	mg/Kg dry	0.215	ND	98.8	40-140	14.8	50	
Aroclor-1016 [2C]	0.21	0.086	mg/Kg dry	0.215	ND	95.5	40-140	7.98	50	
Aroclor-1260	0.17	0.086	mg/Kg dry	0.215	ND	80.9	40-140	2.36	50	
Aroclor-1260 [2C]	0.18	0.086	mg/Kg dry	0.215	ND	82.2	40-140	4.19	50	
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg dry	0.215		72.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.215		86.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.200*		mg/Kg dry	0.215		93.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.215		90.2	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 B186472 - SW-846 3546										
Blank (B186472-BLK1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.75*		mg/Kg wet	3.33		82.4	50-150			
LCS (B186472-BS1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.8	10	mg/Kg wet	33.3		74.5	60-120			
Surrogate: o-Terphenyl	*2.85*		mg/Kg wet	3.33		85.6	50-150			
LCS Dup (B186472-BSD1)				Prepared: 09/18/17 Analyzed: 09/19/17						
CT ETPH	24.2	10	mg/Kg wet	33.3		72.5	60-120	2.67	30	
Surrogate: o-Terphenyl	*2.73*		mg/Kg wet	3.33		81.8	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 B186566 - SW-846 3050B											
Blank (B186566-BLK1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B186566-BS1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	141	4.8	mg/Kg wet	157		89.8		77.8-122.1			
LCS Dup (B186566-BSD1)				Prepared: 09/19/17	Analyzed: 09/20/17						
Arsenic	154	5.2	mg/Kg wet	157		97.9		77.8-122.1	8.53	30	
Batch B186711 - SW-846 3050B											
Blank (B186711-BLK1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B186711-BS1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	138	5.0	mg/Kg wet	157		87.8		77.8-122.1			
LCS Dup (B186711-BSD1)				Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	145	5.1	mg/Kg wet	157		92.2		77.8-122.1	4.88	30	
Duplicate (B186711-DUP1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	112	2.7	mg/Kg dry		89.5				22.6	35	
Matrix Spike (B186711-MS1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	131	2.6	mg/Kg dry	26.4	89.5	**156**	*	75-125			MS-12
Matrix Spike (B186711-MS2)	**Source: 17I0379-10RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	25.6	2.6	mg/Kg dry	25.7	3.63	85.7		75-125			
Matrix Spike Dup (B186711-MSD1)	**Source: 17I0379-07RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	153	2.6	mg/Kg dry	26.4	89.5	**239**	*	75-125	15.5	35	MS-12
Matrix Spike Dup (B186711-MSD2)	**Source: 17I0379-10RE1**			Prepared: 09/20/17	Analyzed: 09/21/17						
Arsenic	25.7	2.5	mg/Kg dry	25.4	3.63	86.7		75-125	0.120	35	

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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 B186437 - % Solids										
Duplicate (B186437-DUP5)		**Source: 17I0379-01**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	93.3		% Wt		92.7			0.645	20	
Duplicate (B186437-DUP6)		**Source: 17I0379-07**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	94.1		% Wt		91.1			3.24	20	
Duplicate (B186437-DUP7)		**Source: 17I0379-10**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	95.8		% Wt		96.4			0.624	20	
Duplicate (B186437-DUP8)		**Source: 17I0379-13**		Prepared: 09/18/17	Analyzed: 09/19/17					
% Solids	95.5		% Wt		95.4			0.105	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-100-3

Lab Sample ID: 17I0379-17

Date(s) Analyzed: 09/23/2017 09/23/2017

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	0.36	
	2	0.000	-0.030	0.030	0.37	2.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC-12W-SO-99-3

Lab Sample ID: 17I0379-20

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	0.16	
	2	0.000	-0.030	0.030	0.16	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.
MS-12	Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
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.
S-02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
S-12	Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected.

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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	
Arsenic	CT,NH,NY,ME,VA,NC
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	09/30/2017
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