

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

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 Public 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

1760867



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

Sampled By:

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	Matrix Code	Conc Code
1	WS-ACC12W-SO-48-2	11/29/17	10:52		X	S	U
2	WS-ACC12W-SO-48-3		10:34				
3	WS-ACC12W-SO-88-1		13:25				
4	WS-ACC12W-SO-88-2A		13:26				
5	WS-ACC12W-SO-88-2B		13:27				
6	WS-ACC12W-SO-88-3		13:28				
7	WS-ACC12W-SO-88-4		13:29				
8	WS-ACC12W-SO-87-1		13:30				
9	WS-ACC12W-SO-87-2A		13:31				
10	WS-ACC12W-SO-87-2B		13:32				

Comments:

Please hold excess volumes for possible SPLP analyses.
 H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	7/10/17 1525
<i>[Signature]</i>	7/20/17 1335
<i>[Signature]</i>	7/20/17 6:130
<i>[Signature]</i>	7/20/17 1830
<i>[Signature]</i>	
<i>[Signature]</i>	

Requested Turnaround Time	Analysis Requested	Matrix Code	Conc Code
7-Day	PAHs		
10-Day	SPLP PCBs		
5-Day	(Sox hat) PCBs		
3-Day	Asxnic		
4-Day	SPLP ETPH		
EXCEL	ETPH		X

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:
 1 = 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)

Program Information
 MCP Analytical Certification Form Required
 RCP Analytical 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

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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

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

Date 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	Matrix Code	Conc Code
11	WS-ACC12W-50-87-3	7/20/17	13:33		X	S	U
12	WS-ACC12W-50-87-4		13:34				
13	WS-ACC12W-50-97-1		13:57				
14	WS-ACC12W-50-97-2A		13:59				
15	WS-ACC12W-50-97-2B		14:01				
16	WS-ACC12W-50-97-3		14:03				
17	WS-ACC12W-50-97-4		14:05				
18	WS-ACC12W-50-89-1		13:50				
19	WS-ACC12W-50-89-2		13:51				
20	WS-ACC12W-50-89-3		13:52				

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: 7/20/17 1535

Received by: (signature)

Date/Time: 7/20/17 1535

Relinquished by: (signature)

Date/Time: 7/20/17 1535

Received by: (signature)

Date/Time: 7/20/17 1535

Relinquished by: (signature)

Date/Time: 7/20/17 1535

Received by: (signature)

Date/Time: 7/20/17 1535

Program Information

MCP Analytical Certification Form Required
 RCP Analytical 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

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 SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 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 <u>Amb</u> /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	

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:

From: [Schiavone, Timothy](#)
To: [Jim Georgantas](#)
Cc: [McGrath, Loren](#); [Spencer, Joseph](#); [Sirotnak, William](#)
Subject: English station Work Order #17G0867
Date: Thursday, July 27, 2017 5:09:15 PM
Attachments: [image001.png](#)

Jim,

On work order #17G0867 we listed sample IDs: WS-AOC12W-87-1, WS-AOC12W-87-2a, WS-AOC12W-87-2b, WS-AOC12W-87-3, WS-AOC12W-87-4. These IDs were already used on the project. Could you please change the sample names to the following:

- WS-AOC12W-87-1 : WS-AOC12W-98-1
- WS-AOC12W-87-2a: WS-AOC12W-98-2a
- WS-AOC12W-87-2b: WS-AOC12W-98-2b
- WS-AOC12W-87-3: WS-AOC12W-98-3
- WS-AOC12W-87-4: WS-AOC12W-98-4

Thanks!

Tim Schiavone
ENVIRONMENTAL SCIENTIST II



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D:\HPCHEM1\DATA\A080217\A0802052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802052.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	389057	424164	-8
c - 10	1.43	379037	424164	-11
c - 12	2.16	405194	424164	-4
c - 14	2.84	416545	424164	-2
c - 16	3.44	430703	424164	2
c - 18	4.02	429130	424164	1
o-Terphenyl	4.31	496417	424164	
c - 20	4.63	438816	424164	3
c - 22	5.15	447046	424164	5
c - 24	5.60	417947	424164	-1
c - 26	6.00	445598	424164	5
c - 28	6.36	441275	424164	4
c - 30	6.69	439402	424164	4
c - 32	7.00	429465	424164	1
c - 34	7.30	427962	424164	1
c - 36	7.58	425281	424164	0

* One compound allowed %D <= 50%

Samples

17G0912-08
 17G0932-01
 17G0932-02
 17G0932-05
 17G0911-14
 17G0911-15
 17G0932-03

D:\HPCHEM\1\DATA\A080217\A0802086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802086.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.07	384056	421351	-9
c - 10	1.43	374286	421351	-11
c - 12	2.17	396009	421351	-6
c - 14	2.84	413660	421351	-2
c - 16	3.44	426881	421351	1
c - 18	4.02	425337	421351	1
o-Terphenyl	4.31	491103	421351	
c - 20	4.63	435935	421351	3
c - 22	5.15	444516	421351	5
c - 24	5.60	418309	421351	-1
c - 26	6.00	444009	421351	5
c - 28	6.36	440050	421351	4
c - 30	6.69	439368	421351	4
c - 32	7.00	428360	421351	2
c - 34	7.30	426707	421351	1
c - 36	7.58	422783	421351	0

* One compound allowed %D <= 50%

Samples

17G1043-01
 17G1043-02
 17G1043-03
 17G1077-07
 17G0774-12@10X
 17G0774-18@10X
 17G0776-17@20X
 17G0867-05
 17G0774-18
 17G0911-15@5X
 17G0911-20@5X
 17G0911-13@5X
 17G0911-17@5X

D:\HPCHEM\1\DATA\A080217\A0802142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802142.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.07	452530	495049	-9
c - 10	1.42	444292	495049	-10
c - 12	2.16	467152	495049	-6
c - 14	2.83	487205	495049	-2
c - 16	3.43	501083	495049	1
c - 18	4.02	498005	495049	1
o-Terphenyl	4.30	578868	495049	
c - 20	4.63	510389	495049	3
c - 22	5.15	520281	495049	5
c - 24	5.60	489573	495049	-1
c - 26	5.99	520841	495049	5
c - 28	6.36	515925	495049	4
c - 30	6.69	514552	495049	4
c - 32	7.00	503320	495049	2
c - 34	7.29	502383	495049	1
c - 36	7.58	498204	495049	1

* One compound allowed %D <= 50%

Samples

17G1045-01
 17G1045-03
 17G1045-04



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: 17G0867

Laboratory Sample ID(s):

Sample Date(s):

17G0867-01 thru 17G0867-20

07/20/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: Project Manager

Printed Name: Lisa A. Worthington

Date: 08/03/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 3, 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: 17G0867

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, reading "James M. Georgantas". The signature is written in a cursive style with a long horizontal flourish extending to the right.

James M. Georgantas
Project Manager

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17G0867-07	18
17G0867-08	20
17G0867-09	22
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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: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0867

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-48-2	17G0867-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-48-3	17G0867-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-88-1	17G0867-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-88-2A	17G0867-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-88-2B	17G0867-05	Soil		CTDEP ETPH SM 2540G	
WS-AOC12W-SO-88-3	17G0867-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-88-4	17G0867-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-98-1	17G0867-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-98-2a	17G0867-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-98-2b	17G0867-10	Soil		SM 2540G SW-846 8270D	
WS-AOC12W-98-3	17G0867-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-98-4	17G0867-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-97-1	17G0867-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-97-2A	17G0867-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-97-2B	17G0867-15	Soil		SM 2540G SW-846 8270D	
WS-AOC12W-SO-97-3	17G0867-16	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-97-4	17G0867-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-89-1	17G0867-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-89-2	17G0867-19	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-89-3	17G0867-20	Soil		SM 2540G SW-846 8082A	

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:**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**

17G0867-12[WS-AOC12W-98-4]

Decachlorobiphenyl [2C]

17G0867-12[WS-AOC12W-98-4]

Tetrachloro-m-xylene

17G0867-12[WS-AOC12W-98-4]

Tetrachloro-m-xylene [2C]

17G0867-12[WS-AOC12W-98-4]

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-2

Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

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	7/27/17	7/31/17 22:45	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 22:45	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					7/31/17 22:45	
Decachlorobiphenyl [2]		112	30-150					7/31/17 22:45	
Tetrachloro-m-xylene [1]		89.6	30-150					7/31/17 22:45	
Tetrachloro-m-xylene [2]		95.3	30-150					7/31/17 22:45	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-2

Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-3

Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

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	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:03	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.3	30-150					7/31/17 23:03	
Decachlorobiphenyl [2]		115	30-150					7/31/17 23:03	
Tetrachloro-m-xylene [1]		92.2	30-150					7/31/17 23:03	
Tetrachloro-m-xylene [2]		98.0	30-150					7/31/17 23:03	

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-3

Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	53.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-1

Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1260 [2]	0.22	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:21	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.4	30-150					7/31/17 23:21	
Decachlorobiphenyl [2]		101	30-150					7/31/17 23:21	
Tetrachloro-m-xylene [1]		86.3	30-150					7/31/17 23:21	
Tetrachloro-m-xylene [2]		92.7	30-150					7/31/17 23:21	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-1

Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2A

Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

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	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1260 [2]	0.78	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:39	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.9	30-150					7/31/17 23:39	
Decachlorobiphenyl [2]		104	30-150					7/31/17 23:39	
Tetrachloro-m-xylene [1]		84.9	30-150					7/31/17 23:39	
Tetrachloro-m-xylene [2]		91.4	30-150					7/31/17 23:39	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2A

Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2B

Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	50	10	mg/Kg dry	1		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		103	50-150					8/2/17 23:54	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-2B

Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.2		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-3

Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

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	7/27/17	7/31/17 23:57	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1260 [2]	0.95	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 23:57	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.1	30-150					7/31/17 23:57	
Decachlorobiphenyl [2]		103	30-150					7/31/17 23:57	
Tetrachloro-m-xylene [1]		86.0	30-150					7/31/17 23:57	
Tetrachloro-m-xylene [2]		90.9	30-150					7/31/17 23:57	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-3

Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-4

Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

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	7/27/17	8/1/17 0:15	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1260 [2]	0.22	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:15	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		111	30-150					8/1/17 0:15	
Decachlorobiphenyl [2]		121	30-150					8/1/17 0:15	
Tetrachloro-m-xylene [1]		102	30-150					8/1/17 0:15	
Tetrachloro-m-xylene [2]		108	30-150					8/1/17 0:15	

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-88-4

Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

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	89.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-1

Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

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	7/27/17	8/1/17 0:33	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1260 [2]	0.70	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:33	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					8/1/17 0:33	
Decachlorobiphenyl [2]		114	30-150					8/1/17 0:33	
Tetrachloro-m-xylene [1]		91.2	30-150					8/1/17 0:33	
Tetrachloro-m-xylene [2]		97.8	30-150					8/1/17 0:33	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-1

Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-2a

Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

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	7/27/17	8/1/17 0:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1260 [2]	0.73	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 0:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		95.4	30-150					8/1/17 0:51	
Decachlorobiphenyl [2]		105	30-150					8/1/17 0:51	
Tetrachloro-m-xylene [1]		87.4	30-150					8/1/17 0:51	
Tetrachloro-m-xylene [2]		92.3	30-150					8/1/17 0:51	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-2a

Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-2b

Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(a)anthracene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(a)pyrene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(b)fluoranthene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Chrysene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Phenanthrene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Pyrene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:28	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		55.6	30-130					7/31/17 18:28	
2-Fluorobiphenyl		54.3	30-130					7/31/17 18:28	
p-Terphenyl-d14		52.7	30-130					7/31/17 18:28	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-2b

Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-3

Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

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	7/27/17	8/1/17 1:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 1:58	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.9	30-150					8/1/17 1:58	
Decachlorobiphenyl [2]		122	30-150					8/1/17 1:58	
Tetrachloro-m-xylene [1]		87.6	30-150					8/1/17 1:58	
Tetrachloro-m-xylene [2]		92.5	30-150					8/1/17 1:58	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-3

Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-4

Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1221 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1232 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1242 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1248 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1254 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1260 [2]	5.7	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1262 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Aroclor-1268 [1]	ND	1.2	mg/Kg dry	50		SW-846 8082A	7/27/17	8/1/17 8:06	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			8/1/17 8:06	
Decachlorobiphenyl [2]		*	30-150		S-01			8/1/17 8:06	
Tetrachloro-m-xylene [1]		*	30-150		S-01			8/1/17 8:06	
Tetrachloro-m-xylene [2]		*	30-150		S-01			8/1/17 8:06	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-98-4

Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-1

Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:35	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					8/1/17 2:35	
Decachlorobiphenyl [2]		112	30-150					8/1/17 2:35	
Tetrachloro-m-xylene [1]		99.0	30-150					8/1/17 2:35	
Tetrachloro-m-xylene [2]		104	30-150					8/1/17 2:35	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-1

Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

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	99.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2A

Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

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	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 2:53	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					8/1/17 2:53	
Decachlorobiphenyl [2]		114	30-150					8/1/17 2:53	
Tetrachloro-m-xylene [1]		95.3	30-150					8/1/17 2:53	
Tetrachloro-m-xylene [2]		100	30-150					8/1/17 2:53	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2A

Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2B

Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

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	7/27/17	7/31/17 18:55	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(a)anthracene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(a)pyrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(b)fluoranthene	2.1	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(g,h,i)perylene	0.87	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Benzo(k)fluoranthene	0.76	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Chrysene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Fluoranthene	3.0	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Indeno(1,2,3-cd)pyrene	0.89	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Phenanthrene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Pyrene	2.3	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 18:55	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		53.8	30-130					7/31/17 18:55	
2-Fluorobiphenyl		56.4	30-130					7/31/17 18:55	
p-Terphenyl-d14		56.3	30-130					7/31/17 18:55	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-2B

Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-3

Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:11	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					8/1/17 3:11	
Decachlorobiphenyl [2]		116	30-150					8/1/17 3:11	
Tetrachloro-m-xylene [1]		95.1	30-150					8/1/17 3:11	
Tetrachloro-m-xylene [2]		101	30-150					8/1/17 3:11	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-3

Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-4

Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:29	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					8/1/17 3:29	
Decachlorobiphenyl [2]		119	30-150					8/1/17 3:29	
Tetrachloro-m-xylene [1]		98.4	30-150					8/1/17 3:29	
Tetrachloro-m-xylene [2]		103	30-150					8/1/17 3:29	

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-97-4

Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-1

Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

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	7/27/17	8/1/17 3:48	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1260 [2]	0.40	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 3:48	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.8	30-150					8/1/17 3:48	
Decachlorobiphenyl [2]		103	30-150					8/1/17 3:48	
Tetrachloro-m-xylene [1]		86.3	30-150					8/1/17 3:48	
Tetrachloro-m-xylene [2]		90.9	30-150					8/1/17 3:48	

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-1

Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-2

Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1260 [2]	0.70	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:06	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		106	30-150					8/1/17 4:06	
Decachlorobiphenyl [2]		115	30-150					8/1/17 4:06	
Tetrachloro-m-xylene [1]		93.4	30-150					8/1/17 4:06	
Tetrachloro-m-xylene [2]		99.5	30-150					8/1/17 4:06	

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: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-2

Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

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	90.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-3

Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

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	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	8/1/17 4:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		113	30-150					8/1/17 4:23	
Decachlorobiphenyl [2]		129	30-150					8/1/17 4:23	
Tetrachloro-m-xylene [1]		108	30-150					8/1/17 4:23	
Tetrachloro-m-xylene [2]		113	30-150					8/1/17 4:23	

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-3

Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-05 [WS-AOC12W-SO-88-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0867-01 [WS-AOC12W-SO-48-2]	B182677	07/27/17
17G0867-02 [WS-AOC12W-SO-48-3]	B182677	07/27/17
17G0867-03 [WS-AOC12W-SO-88-1]	B182677	07/27/17
17G0867-04 [WS-AOC12W-SO-88-2A]	B182677	07/27/17
17G0867-05 [WS-AOC12W-SO-88-2B]	B182677	07/27/17
17G0867-06 [WS-AOC12W-SO-88-3]	B182677	07/27/17
17G0867-07 [WS-AOC12W-SO-88-4]	B182677	07/27/17
17G0867-08 [WS-AOC12W-98-1]	B182677	07/27/17
17G0867-09 [WS-AOC12W-98-2a]	B182677	07/27/17
17G0867-10 [WS-AOC12W-98-2b]	B182677	07/27/17
17G0867-11 [WS-AOC12W-98-3]	B182677	07/27/17
17G0867-12 [WS-AOC12W-98-4]	B182677	07/27/17
17G0867-13 [WS-AOC12W-SO-97-1]	B182677	07/27/17
17G0867-14 [WS-AOC12W-SO-97-2A]	B182677	07/27/17
17G0867-15 [WS-AOC12W-SO-97-2B]	B182677	07/27/17
17G0867-16 [WS-AOC12W-SO-97-3]	B182677	07/27/17
17G0867-17 [WS-AOC12W-SO-97-4]	B182677	07/27/17
17G0867-18 [WS-AOC12W-SO-89-1]	B182677	07/27/17
17G0867-19 [WS-AOC12W-SO-89-2]	B182677	07/27/17
17G0867-20 [WS-AOC12W-SO-89-3]	B182677	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-01 [WS-AOC12W-SO-48-2]	B182736	10.0	10.0	07/27/17
17G0867-02 [WS-AOC12W-SO-48-3]	B182736	10.0	10.0	07/27/17
17G0867-03 [WS-AOC12W-SO-88-1]	B182736	10.0	10.0	07/27/17
17G0867-04 [WS-AOC12W-SO-88-2A]	B182736	10.0	10.0	07/27/17
17G0867-06 [WS-AOC12W-SO-88-3]	B182736	10.0	10.0	07/27/17
17G0867-07 [WS-AOC12W-SO-88-4]	B182736	10.0	10.0	07/27/17
17G0867-08 [WS-AOC12W-98-1]	B182736	10.0	10.0	07/27/17
17G0867-09 [WS-AOC12W-98-2a]	B182736	10.0	10.0	07/27/17
17G0867-11 [WS-AOC12W-98-3]	B182736	10.0	10.0	07/27/17
17G0867-12 [WS-AOC12W-98-4]	B182736	10.0	10.0	07/27/17
17G0867-13 [WS-AOC12W-SO-97-1]	B182736	10.0	10.0	07/27/17
17G0867-14 [WS-AOC12W-SO-97-2A]	B182736	10.0	10.0	07/27/17
17G0867-16 [WS-AOC12W-SO-97-3]	B182736	10.0	10.0	07/27/17
17G0867-17 [WS-AOC12W-SO-97-4]	B182736	10.0	10.0	07/27/17
17G0867-18 [WS-AOC12W-SO-89-1]	B182736	10.0	10.0	07/27/17
17G0867-19 [WS-AOC12W-SO-89-2]	B182736	10.0	10.0	07/27/17
17G0867-20 [WS-AOC12W-SO-89-3]	B182736	10.0	10.0	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0867-10 [WS-AOC12W-98-2b]	B182710	30.0	1.00	07/27/17

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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
17G0867-15 [WS-AOC12W-SO-97-2B]	B182710	30.0	1.00	07/27/17

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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
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Batch B182710 - SW-846 3546

Blank (B182710-BLK1)

Prepared: 07/27/17 Analyzed: 07/31/17

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	2.49		mg/Kg wet	3.33		74.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.33		77.0	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.33		84.2	30-130			

LCS (B182710-BS1)

Prepared: 07/27/17 Analyzed: 07/31/17

Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Acenaphthylene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Benzo(a)anthracene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Benzo(b)fluoranthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Chrysene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140			
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Naphthalene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
Phenanthrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.17		mg/Kg wet	3.33		65.2	30-130			
Surrogate: p-Terphenyl-d14	2.12		mg/Kg wet	3.33		63.6	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 B182710 - SW-846 3546										
LCS Dup (B182710-BSD1)										
					Prepared: 07/27/17 Analyzed: 07/31/17					
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	2.36	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	5.70	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	3.22	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	6.17	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	5.63	30	
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	9.15	30	
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	6.78	30	
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	8.78	30	
Chrysene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	7.30	30	
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	6.70	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	4.88	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	6.16	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	11.1	30	
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140	12.8	30	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.5	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	6.70	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	9.04	30	
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.29		mg/Kg wet	3.33		68.6	30-130			
Surrogate: p-Terphenyl-d14	2.32		mg/Kg wet	3.33		69.6	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 B182736 - SW-846 3540C										
Blank (B182736-BLK1)										
Prepared: 07/27/17 Analyzed: 07/31/17										
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	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.217		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.2	30-150			
LCS (B182736-BS1)										
Prepared: 07/27/17 Analyzed: 07/31/17										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.4	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.2	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.6	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.7	40-140			
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.206		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	0.186		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		93.0	30-150			
LCS Dup (B182736-BSD1)										
Prepared: 07/27/17 Analyzed: 07/31/17										
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.1	40-140	2.76	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.1	40-140	3.42	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.7	40-140	3.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140	4.13	30	
Surrogate: Decachlorobiphenyl	0.189		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.198		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.179		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.181		mg/Kg wet	0.200		90.5	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
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Batch B182736 - SW-846 3540C

Matrix Spike (B182736-MS1)

Source: 17G0867-01

Prepared: 07/27/17 Analyzed: 08/01/17

Aroclor-1016	0.22	0.11	mg/Kg dry	0.220	ND	101	40-140			
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.220	ND	109	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.220	ND	86.1	40-140			
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.220	ND	101	40-140			
Surrogate: Decachlorobiphenyl	0.223		mg/Kg dry	0.220		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.242		mg/Kg dry	0.220		110	30-150			
Surrogate: Tetrachloro-m-xylene	0.204		mg/Kg dry	0.220		92.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.216		mg/Kg dry	0.220		98.1	30-150			

Matrix Spike Dup (B182736-MSD1)

Source: 17G0867-01

Prepared: 07/27/17 Analyzed: 08/01/17

Aroclor-1016	0.22	0.11	mg/Kg dry	0.220	ND	98.2	40-140	2.54	50	
Aroclor-1016 [2C]	0.25	0.11	mg/Kg dry	0.220	ND	112	40-140	2.18	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.220	ND	87.7	40-140	1.84	50	
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.220	ND	102	40-140	1.51	50	
Surrogate: Decachlorobiphenyl	0.226		mg/Kg dry	0.220		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.244		mg/Kg dry	0.220		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.199		mg/Kg dry	0.220		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.214		mg/Kg dry	0.220		97.2	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 B182711 - SW-846 3546										
Blank (B182711-BLK1)					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.13		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	2.65		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	2.56		mg/Kg wet	3.33		76.9	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
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Batch B182677 - % Solids

Duplicate (B182677-DUP5)

Source: 17G0867-10

Prepared: 07/27/17 Analyzed: 07/28/17

% Solids	90.1		% Wt		90.1			0.00	20	
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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-88-1

SW-846 8082A

Lab Sample ID: 17G0867-03 Date(s) Analyzed: 07/31/2017 07/31/2017

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-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.22	20.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-88-2A

Lab Sample ID: 17G0867-04 Date(s) Analyzed: 07/31/2017 07/31/2017

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-1260	1	0.000	-0.030	0.030	0.71	
	2	0.000	-0.030	0.030	0.78	9.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-88-3

SW-846 8082A

Lab Sample ID: 17G0867-06 Date(s) Analyzed: 07/31/2017 07/31/2017

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-1260	1	0.000	-0.030	0.030	0.86	
	2	0.000	-0.030	0.030	0.95	9.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-88-4

SW-846 8082A

Lab Sample ID: 17G0867-07 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-87-1

SW-846 8082A

Lab Sample ID: 17G0867-08 Date(s) Analyzed: 08/01/2017 08/01/2017
 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-1260	1	0.000	-0.030	0.030	0.62	
	2	0.000	-0.030	0.030	0.70	12.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-87-2A

SW-846 8082A

Lab Sample ID: 17G0867-09 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.63	
	2	0.000	-0.030	0.030	0.73	13.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-87-4

SW-846 8082A

Lab Sample ID: 17G0867-12 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	5.0	
	2	0.000	-0.030	0.030	5.7	13.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-89-1

SW-846 8082A

Lab Sample ID: 17G0867-18 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.40	13.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-89-2

SW-846 8082A

Lab Sample ID: 17G0867-19 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.70	13.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B182736-BS1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.19	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B182736-BSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.18	11.8
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B182736-MS1 Date(s) Analyzed: 08/01/2017 08/01/2017

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	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.24	8.7
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B182736-MSD1 Date(s) Analyzed: 08/01/2017 08/01/2017

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	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.25	12.8
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.22	14.6

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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.
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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>CTDEP ETPH in Soil</i>	
CT ETPH	CT
<i>SW-846 8082A in Soil</i>	
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
<i>SW-846 8270D in Soil</i>	
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 Public 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

1760867

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Email: info@contestlabs.com

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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

Sampled By:

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	Matrix Code	Conc Code
1	WS-ACC12W-SO-48-2	11/29/17	10:52		X	S	U
2	WS-ACC12W-SO-48-3		10:34				
3	WS-ACC12W-SO-88-1		13:25				
4	WS-ACC12W-SO-88-2A		13:26				
5	WS-ACC12W-SO-88-2B		13:27				
6	WS-ACC12W-SO-88-3		13:28				
7	WS-ACC12W-SO-88-4		13:29				
8	WS-ACC12W-SO-87-1		13:30				
9	WS-ACC12W-SO-87-2A		13:31				
10	WS-ACC12W-SO-87-2B		13:32				

ANALYSIS REQUESTED

PAHs							
SPLP PCBs							
(Sox hat) PCBs	X						
ETPH							X
SPLP ETPH							
ARSENIC							

- 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:**
 1 = 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)

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

Program Information

- MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time: 7/10/17 1525
Received by: (signature)	Date/Time: 7/20/17 1335
Relinquished by: (signature)	Date/Time: 7/20/17 1830
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

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

1760867



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

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
 Date 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	Matrix Code	Conc Code
11	WS-ACC12W-50-87-3	7/20/17	13:33	X	X	S	U
12	WS-ACC12W-50-87-4		13:34				
13	WS-ACC12W-50-97-1		13:57				
14	WS-ACC12W-50-97-2A		13:59				
15	WS-ACC12W-50-97-2B		14:01				
16	WS-ACC12W-50-97-3		14:03				
17	WS-ACC12W-50-97-4		14:05				
18	WS-ACC12W-50-89-1		13:50				
19	WS-ACC12W-50-89-2		13:51				
20	WS-ACC12W-50-89-3		13:52				

ANALYSIS REQUESTED

Analysis	11	12	13	14	15	16	17	18	19	20
Arsenic										
SPLP ETPH										
ETPH										
PAHs										
SPLP PCBs	X	X	X	X	X	X	X	X	X	X
(Soxhlet) PCBs										

- 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)

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

(Handwritten signature)

Program Information

- MCP Analytical Certification Form Required
 RCP Analytical Certification Form Required
 MA State DW Form Required
 PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535
Received by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535
Relinquished by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535
Received by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535
Relinquished by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535
Received by: (signature)	Date/Time:
<i>(Signature)</i>	7/20/17 1535

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

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 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
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:

From: [Schiavone, Timothy](#)
To: [Jim Georgantas](#)
Cc: [McGrath, Loren](#); [Spencer, Joseph](#); [Sirotnak, William](#)
Subject: English station Work Order #17G0867
Date: Thursday, July 27, 2017 5:09:15 PM
Attachments: [image001.png](#)

Jim,

On work order #17G0867 we listed sample IDs: WS-AOC12W-87-1, WS-AOC12W-87-2a, WS-AOC12W-87-2b, WS-AOC12W-87-3, WS-AOC12W-87-4. These IDs were already used on the project. Could you please change the sample names to the following:

- WS-AOC12W-87-1 : WS-AOC12W-98-1
- WS-AOC12W-87-2a: WS-AOC12W-98-2a
- WS-AOC12W-87-2b: WS-AOC12W-98-2b
- WS-AOC12W-87-3: WS-AOC12W-98-3
- WS-AOC12W-87-4: WS-AOC12W-98-4

Thanks!

Tim Schiavone
ENVIRONMENTAL SCIENTIST II



427 Main Street, Suite 400
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Direct: 978-587-4006

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D:\HPCHEM1\DATA\A080217\A0802052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802052.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	389057	424164	-8
c - 10	1.43	379037	424164	-11
c - 12	2.16	405194	424164	-4
c - 14	2.84	416545	424164	-2
c - 16	3.44	430703	424164	2
c - 18	4.02	429130	424164	1
o-Terphenyl	4.31	496417	424164	
c - 20	4.63	438816	424164	3
c - 22	5.15	447046	424164	5
c - 24	5.60	417947	424164	-1
c - 26	6.00	445598	424164	5
c - 28	6.36	441275	424164	4
c - 30	6.69	439402	424164	4
c - 32	7.00	429465	424164	1
c - 34	7.30	427962	424164	1
c - 36	7.58	425281	424164	0

* One compound allowed %D <= 50%

Samples

17G0912-08
 17G0932-01
 17G0932-02
 17G0932-05
 17G0911-14
 17G0911-15
 17G0932-03

D:\HPCHEM\1\DATA\A080217\A0802086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802086.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.07	384056	421351	-9
c - 10	1.43	374286	421351	-11
c - 12	2.17	396009	421351	-6
c - 14	2.84	413660	421351	-2
c - 16	3.44	426881	421351	1
c - 18	4.02	425337	421351	1
o-Terphenyl	4.31	491103	421351	
c - 20	4.63	435935	421351	3
c - 22	5.15	444516	421351	5
c - 24	5.60	418309	421351	-1
c - 26	6.00	444009	421351	5
c - 28	6.36	440050	421351	4
c - 30	6.69	439368	421351	4
c - 32	7.00	428360	421351	2
c - 34	7.30	426707	421351	1
c - 36	7.58	422783	421351	0

* One compound allowed %D <= 50%

Samples

17G1043-01
 17G1043-02
 17G1043-03
 17G1077-07
 17G0774-12@10X
 17G0774-18@10X
 17G0776-17@20X
 17G0867-05
 17G0774-18
 17G0911-15@5X
 17G0911-20@5X
 17G0911-13@5X
 17G0911-17@5X

D:\HPCHEM\1\DATA\A080217\A0802142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802142.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.07	452530	495049	-9
c - 10	1.42	444292	495049	-10
c - 12	2.16	467152	495049	-6
c - 14	2.83	487205	495049	-2
c - 16	3.43	501083	495049	1
c - 18	4.02	498005	495049	1
o-Terphenyl	4.30	578868	495049	
c - 20	4.63	510389	495049	3
c - 22	5.15	520281	495049	5
c - 24	5.60	489573	495049	-1
c - 26	5.99	520841	495049	5
c - 28	6.36	515925	495049	4
c - 30	6.69	514552	495049	4
c - 32	7.00	503320	495049	2
c - 34	7.29	502383	495049	1
c - 36	7.58	498204	495049	1

* One compound allowed %D <= 50%

Samples

17G1045-01
 17G1045-03
 17G1045-04



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: 17G0867

Laboratory Sample ID(s):

Sample Date(s):

17G0867-01 thru 17G0867-20

07/20/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: Project Manager

Printed Name: Lisa A. Worthington

Date: 08/03/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 3, 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: 17G0868

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0868

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-89-4A	17G0868-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-89-4B	17G0868-02	Soil		CTDEP ETPH SM 2540G	
WS-AOC12W-SO-90-1	17G0868-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-90-2	17G0868-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-90-3	17G0868-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-90-4A	17G0868-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-90-4B	17G0868-07	Soil		CTDEP ETPH SM 2540G	
WS-AOC12W-SO-91-1	17G0868-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-91-2	17G0868-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-91-3	17G0868-10	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-91-4	17G0868-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-96-1	17G0868-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-96-2	17G0868-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-96-3	17G0868-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-92-1	17G0868-15	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-92-2	17G0868-16	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-92-3	17G0868-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-92-4	17G0868-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-93-1	17G0868-19	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-93-2	17G0868-20	Soil		SM 2540G SW-846 8082A	

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:****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**

17G0868-02[WS-AOC12W-SO-89-4B], 17G0868-07[WS-AOC12W-SO-90-4B]

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**

17G0868-01[WS-AOC12W-SO-89-4A]

Decachlorobiphenyl [2C]

17G0868-01[WS-AOC12W-SO-89-4A]

Tetrachloro-m-xylene

17G0868-01[WS-AOC12W-SO-89-4A]

Tetrachloro-m-xylene [2C]

17G0868-01[WS-AOC12W-SO-89-4A]

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

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-4A

Sampled: 7/20/2017 13:53

Sample ID: 17G0868-01

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	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1221 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1232 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1242 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1248 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1254 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1260 [1]	7.1	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1262 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Aroclor-1268 [1]	ND	1.3	mg/Kg dry	50		SW-846 8082A	7/28/17	8/1/17 6:48	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		*	30-150		S-01			8/1/17 6:48	
Decachlorobiphenyl [2]		*	30-150		S-01			8/1/17 6:48	
Tetrachloro-m-xylene [1]		*	30-150		S-01			8/1/17 6:48	
Tetrachloro-m-xylene [2]		*	30-150		S-01			8/1/17 6:48	

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: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-4A

Sampled: 7/20/2017 13:53

Sample ID: 17G0868-01

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	78.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-4B

Sampled: 7/20/2017 13:54

Sample ID: 17G0868-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	27000	5500	mg/Kg dry	200		CTDEP ETPH	7/27/17	8/3/17 11:54	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			8/3/17 11:54	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-89-4B

Sampled: 7/20/2017 13:54

Sample ID: 17G0868-02

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	73.0		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-1

Sampled: 7/20/2017 14:07

Sample ID: 17G0868-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1260 [2]	0.37	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		72.1	30-150					7/31/17 23:16	
Decachlorobiphenyl [2]		73.9	30-150					7/31/17 23:16	
Tetrachloro-m-xylene [1]		82.1	30-150					7/31/17 23:16	
Tetrachloro-m-xylene [2]		87.7	30-150					7/31/17 23:16	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-1

Sampled: 7/20/2017 14:07

Sample ID: 17G0868-03

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	97.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-2

Sampled: 7/20/2017 14:08

Sample ID: 17G0868-04

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]	0.11	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1260 [2]	0.34	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:34	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	71.5		30-150				7/31/17 23:34		
Decachlorobiphenyl [2]	83.5		30-150				7/31/17 23:34		
Tetrachloro-m-xylene [1]	87.7		30-150				7/31/17 23:34		
Tetrachloro-m-xylene [2]	94.2		30-150				7/31/17 23:34		

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-2

Sampled: 7/20/2017 14:08

Sample ID: 17G0868-04

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	93.0		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-3

Sampled: 7/20/2017 14:09

Sample ID: 17G0868-05

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	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	7/31/17 23:51	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.6	30-150					7/31/17 23:51	
Decachlorobiphenyl [2]		94.4	30-150					7/31/17 23:51	
Tetrachloro-m-xylene [1]		91.1	30-150					7/31/17 23:51	
Tetrachloro-m-xylene [2]		103	30-150					7/31/17 23:51	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-3

Sampled: 7/20/2017 14:09

Sample ID: 17G0868-05

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	97.8		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-4A

Sampled: 7/20/2017 14:10

Sample ID: 17G0868-06

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	7/28/17	8/1/17 0:09	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.8	30-150					8/1/17 0:09	
Decachlorobiphenyl [2]		102	30-150					8/1/17 0:09	
Tetrachloro-m-xylene [1]		85.1	30-150					8/1/17 0:09	
Tetrachloro-m-xylene [2]		94.4	30-150					8/1/17 0:09	

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: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-4A

Sampled: 7/20/2017 14:10

Sample ID: 17G0868-06

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	90.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-4B

Sampled: 7/20/2017 14:11

Sample ID: 17G0868-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6600	2400	mg/Kg dry	200		CTDEP ETPH	7/27/17	8/3/17 12:12	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			8/3/17 12:12	

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: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-90-4B

Sampled: 7/20/2017 14:11

Sample ID: 17G0868-07

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	82.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-1

Sampled: 7/20/2017 14:16

Sample ID: 17G0868-08

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	7/28/17	8/1/17 0:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1260 [2]	0.77	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Aroclor-1268 [2]	0.28	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.9	30-150					8/1/17 0:26	
Decachlorobiphenyl [2]		109	30-150					8/1/17 0:26	
Tetrachloro-m-xylene [1]		93.1	30-150					8/1/17 0:26	
Tetrachloro-m-xylene [2]		101	30-150					8/1/17 0:26	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-1

Sampled: 7/20/2017 14:16

Sample ID: 17G0868-08

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	97.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-2

Sampled: 7/20/2017 14:17

Sample ID: 17G0868-09

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 0:44	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.5	30-150					8/1/17 0:44	
Decachlorobiphenyl [2]		106	30-150					8/1/17 0:44	
Tetrachloro-m-xylene [1]		82.8	30-150					8/1/17 0:44	
Tetrachloro-m-xylene [2]		91.2	30-150					8/1/17 0:44	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-2

Sampled: 7/20/2017 14:17

Sample ID: 17G0868-09

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	98.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-3

Sampled: 7/20/2017 14:18

Sample ID: 17G0868-10

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	7/28/17	8/1/17 1:01	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1260 [2]	0.58	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:01	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.5	30-150					8/1/17 1:01	
Decachlorobiphenyl [2]		105	30-150					8/1/17 1:01	
Tetrachloro-m-xylene [1]		93.4	30-150					8/1/17 1:01	
Tetrachloro-m-xylene [2]		105	30-150					8/1/17 1:01	

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-3

Sampled: 7/20/2017 14:18

Sample ID: 17G0868-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-4

Sampled: 7/20/2017 14:19

Sample ID: 17G0868-11

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]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1260 [2]	0.45	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:19	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	85.9		30-150				8/1/17 1:19		
Decachlorobiphenyl [2]	104		30-150				8/1/17 1:19		
Tetrachloro-m-xylene [1]	96.4		30-150				8/1/17 1:19		
Tetrachloro-m-xylene [2]	106		30-150				8/1/17 1:19		

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-91-4

Sampled: 7/20/2017 14:19

Sample ID: 17G0868-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-1

Sampled: 7/20/2017 14:26

Sample ID: 17G0868-12

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	7/28/17	8/1/17 1:36	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 1:36	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		107	30-150					8/1/17 1:36	
Decachlorobiphenyl [2]		125	30-150					8/1/17 1:36	
Tetrachloro-m-xylene [1]		96.7	30-150					8/1/17 1:36	
Tetrachloro-m-xylene [2]		107	30-150					8/1/17 1:36	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-1

Sampled: 7/20/2017 14:26

Sample ID: 17G0868-12

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	99.6		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-2

Sampled: 7/20/2017 14:28

Sample ID: 17G0868-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Aroclor-1268 [2]	0.16	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:41	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.7	30-150					8/1/17 2:41	
Decachlorobiphenyl [2]		104	30-150					8/1/17 2:41	
Tetrachloro-m-xylene [1]		98.1	30-150					8/1/17 2:41	
Tetrachloro-m-xylene [2]		105	30-150					8/1/17 2:41	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-2

Sampled: 7/20/2017 14:28

Sample ID: 17G0868-13

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	95.5		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-3

Sampled: 7/20/2017 14:30

Sample ID: 17G0868-14

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	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 2:59	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.9	30-150					8/1/17 2:59	
Decachlorobiphenyl [2]		94.7	30-150					8/1/17 2:59	
Tetrachloro-m-xylene [1]		98.8	30-150					8/1/17 2:59	
Tetrachloro-m-xylene [2]		94.7	30-150					8/1/17 2:59	

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: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-96-3

Sampled: 7/20/2017 14:30

Sample ID: 17G0868-14

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	90.9		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-1

Sampled: 7/20/2017 14:39

Sample ID: 17G0868-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1260 [2]	0.86	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:16	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.7	30-150					8/1/17 3:16	
Decachlorobiphenyl [2]		109	30-150					8/1/17 3:16	
Tetrachloro-m-xylene [1]		84.8	30-150					8/1/17 3:16	
Tetrachloro-m-xylene [2]		86.2	30-150					8/1/17 3:16	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-1

Sampled: 7/20/2017 14:39

Sample ID: 17G0868-15

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	97.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-2

Sampled: 7/20/2017 14:40

Sample ID: 17G0868-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.6	30-150					8/1/17 3:34	
Decachlorobiphenyl [2]		98.2	30-150					8/1/17 3:34	
Tetrachloro-m-xylene [1]		91.2	30-150					8/1/17 3:34	
Tetrachloro-m-xylene [2]		98.2	30-150					8/1/17 3:34	

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-2

Sampled: 7/20/2017 14:40

Sample ID: 17G0868-16

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	86.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-3

Sampled: 7/20/2017 14:41

Sample ID: 17G0868-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 3:51	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.3	30-150					8/1/17 3:51	
Decachlorobiphenyl [2]		95.3	30-150					8/1/17 3:51	
Tetrachloro-m-xylene [1]		86.5	30-150					8/1/17 3:51	
Tetrachloro-m-xylene [2]		92.4	30-150					8/1/17 3:51	

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-3

Sampled: 7/20/2017 14:41

Sample ID: 17G0868-17

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	83.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-4

Sampled: 7/20/2017 14:42

Sample ID: 17G0868-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1260 [1]	1.5	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:08	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.8	30-150					8/1/17 4:08	
Decachlorobiphenyl [2]		86.1	30-150					8/1/17 4:08	
Tetrachloro-m-xylene [1]		76.8	30-150					8/1/17 4:08	
Tetrachloro-m-xylene [2]		80.8	30-150					8/1/17 4:08	

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: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-92-4

Sampled: 7/20/2017 14:42

Sample ID: 17G0868-18

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	84.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-1

Sampled: 7/20/2017 14:44

Sample ID: 17G0868-19

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1260 [2]	0.60	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.0	30-150					8/1/17 4:26	
Decachlorobiphenyl [2]		99.6	30-150					8/1/17 4:26	
Tetrachloro-m-xylene [1]		95.7	30-150					8/1/17 4:26	
Tetrachloro-m-xylene [2]		102	30-150					8/1/17 4:26	

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-1

Sampled: 7/20/2017 14:44

Sample ID: 17G0868-19

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	98.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-2

Sampled: 7/20/2017 14:45

Sample ID: 17G0868-20

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	7/28/17	8/1/17 4:43	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1260 [2]	1.3	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/1/17 4:43	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.0	30-150					8/1/17 4:43	
Decachlorobiphenyl [2]		99.1	30-150					8/1/17 4:43	
Tetrachloro-m-xylene [1]		95.2	30-150					8/1/17 4:43	
Tetrachloro-m-xylene [2]		104	30-150					8/1/17 4:43	

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

Sample Description:

Work Order: 17G0868

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-2

Sampled: 7/20/2017 14:45

Sample ID: 17G0868-20

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	92.9		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0868-02 [WS-AOC12W-SO-89-4B]	B182711	15.0	1.00	07/27/17
17G0868-07 [WS-AOC12W-SO-90-4B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0868-01 [WS-AOC12W-SO-89-4A]	B182677	07/27/17
17G0868-02 [WS-AOC12W-SO-89-4B]	B182677	07/27/17
17G0868-03 [WS-AOC12W-SO-90-1]	B182677	07/27/17
17G0868-04 [WS-AOC12W-SO-90-2]	B182677	07/27/17
17G0868-05 [WS-AOC12W-SO-90-3]	B182677	07/27/17
17G0868-06 [WS-AOC12W-SO-90-4A]	B182677	07/27/17
17G0868-07 [WS-AOC12W-SO-90-4B]	B182677	07/27/17
17G0868-08 [WS-AOC12W-SO-91-1]	B182677	07/27/17
17G0868-09 [WS-AOC12W-SO-91-2]	B182677	07/27/17
17G0868-10 [WS-AOC12W-SO-91-3]	B182677	07/27/17
17G0868-11 [WS-AOC12W-SO-91-4]	B182677	07/27/17
17G0868-12 [WS-AOC12W-SO-96-1]	B182677	07/27/17
17G0868-13 [WS-AOC12W-SO-96-2]	B182677	07/27/17
17G0868-14 [WS-AOC12W-SO-96-3]	B182677	07/27/17
17G0868-15 [WS-AOC12W-SO-92-1]	B182677	07/27/17
17G0868-16 [WS-AOC12W-SO-92-2]	B182677	07/27/17
17G0868-17 [WS-AOC12W-SO-92-3]	B182677	07/27/17
17G0868-18 [WS-AOC12W-SO-92-4]	B182677	07/27/17
17G0868-19 [WS-AOC12W-SO-93-1]	B182677	07/27/17
17G0868-20 [WS-AOC12W-SO-93-2]	B182677	07/27/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0868-01 [WS-AOC12W-SO-89-4A]	B182746	10.0	10.0	07/28/17
17G0868-03 [WS-AOC12W-SO-90-1]	B182746	10.0	10.0	07/28/17
17G0868-04 [WS-AOC12W-SO-90-2]	B182746	10.0	10.0	07/28/17
17G0868-05 [WS-AOC12W-SO-90-3]	B182746	10.0	10.0	07/28/17
17G0868-06 [WS-AOC12W-SO-90-4A]	B182746	10.0	10.0	07/28/17
17G0868-08 [WS-AOC12W-SO-91-1]	B182746	10.0	10.0	07/28/17
17G0868-09 [WS-AOC12W-SO-91-2]	B182746	10.0	10.0	07/28/17
17G0868-10 [WS-AOC12W-SO-91-3]	B182746	10.0	10.0	07/28/17
17G0868-11 [WS-AOC12W-SO-91-4]	B182746	10.0	10.0	07/28/17
17G0868-12 [WS-AOC12W-SO-96-1]	B182746	10.0	10.0	07/28/17
17G0868-13 [WS-AOC12W-SO-96-2]	B182746	10.0	10.0	07/28/17
17G0868-14 [WS-AOC12W-SO-96-3]	B182746	10.0	10.0	07/28/17
17G0868-15 [WS-AOC12W-SO-92-1]	B182746	10.0	10.0	07/28/17
17G0868-16 [WS-AOC12W-SO-92-2]	B182746	10.0	10.0	07/28/17
17G0868-17 [WS-AOC12W-SO-92-3]	B182746	10.0	10.0	07/28/17
17G0868-18 [WS-AOC12W-SO-92-4]	B182746	10.0	10.0	07/28/17
17G0868-19 [WS-AOC12W-SO-93-1]	B182746	10.0	10.0	07/28/17
17G0868-20 [WS-AOC12W-SO-93-2]	B182746	10.0	10.0	07/28/17

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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 B182746 - SW-846 3540C										
Blank (B182746-BLK1)										
Prepared: 07/28/17 Analyzed: 07/30/17										
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	0.245		mg/Kg wet	0.200		123	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.192		mg/Kg wet	0.200		96.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200		95.3	30-150			
LCS (B182746-BS1)										
Prepared: 07/28/17 Analyzed: 07/30/17										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		104	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		95.2	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.9	40-140			
Surrogate: Decachlorobiphenyl	0.248		mg/Kg wet	0.200		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg wet	0.200		96.5	30-150			
LCS Dup (B182746-BSD1)										
Prepared: 07/28/17 Analyzed: 07/30/17										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140	0.395	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	1.34	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		96.6	40-140	1.50	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		93.2	40-140	1.42	30	
Surrogate: Decachlorobiphenyl	0.245		mg/Kg wet	0.200		122	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.200		96.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182711 - SW-846 3546										
Blank (B182711-BLK1)										
					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.13		mg/Kg wet	3.33		93.9	50-150			
LCS (B182711-BS1)										
					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	29.4	10	mg/Kg wet	33.3		88.2	60-120			
Surrogate: o-Terphenyl	2.65		mg/Kg wet	3.33		79.5	50-150			
LCS Dup (B182711-BSD1)										
					Prepared: 07/27/17 Analyzed: 08/01/17					
CT ETPH	28.3	10	mg/Kg wet	33.3		85.0	60-120	3.69	30	
Surrogate: o-Terphenyl	2.56		mg/Kg wet	3.33		76.9	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 B182677 - % Solids										
Duplicate (B182677-DUP6)		Source: 17G0868-01		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	73.8		% Wt		78.5			6.17	20	
Duplicate (B182677-DUP7)		Source: 17G0868-10		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	95.4		% Wt		94.4			1.05	20	
Duplicate (B182677-DUP8)		Source: 17G0868-20		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	95.5		% Wt		92.9			2.76	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-89-4A

SW-846 8082A

Lab Sample ID: 17G0868-01 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	7.1	
	2	0.000	-0.030	0.030	7.0	1.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-90-1

Lab Sample ID: 17G0868-03 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.35	
	2	0.000	-0.030	0.030	0.37	5.6

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-90-2

Lab Sample ID: 17G0868-04 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.31	
	2	0.000	-0.030	0.030	0.34	9.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-91-1

SW-846 8082A

Lab Sample ID: 17G0868-08 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.67	
	2	0.000	-0.030	0.030	0.77	13.9
Aroclor-1268	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.28	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-91-3

Lab Sample ID: 17G0868-10 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.53	
	2	0.000	-0.030	0.030	0.58	9.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-91-4

SW-846 8082A

Lab Sample ID: 17G0868-11 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.44	
	2	0.000	-0.030	0.030	0.45	2.3

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-96-2

SW-846 8082A

Lab Sample ID: 17G0868-13 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1268	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.16	20.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-92-1

SW-846 8082A

Lab Sample ID: 17G0868-15 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.82	
	2	0.000	-0.030	0.030	0.86	4.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-92-4

Lab Sample ID: 17G0868-18 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.6	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-93-1

SW-846 8082A

Lab Sample ID: 17G0868-19 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	0.56	
	2	0.000	-0.030	0.030	0.60	6.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-93-2

Lab Sample ID: 17G0868-20 Date(s) Analyzed: 08/01/2017 08/01/2017

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-1260	1	0.000	-0.030	0.030	1.2	
	2	0.000	-0.030	0.030	1.3	8.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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 Public 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



Email: info@contestlabs.com

Weston & Sampson Engineers
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: Malcom Beeler

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotnak

Requested Turnaround Time

7-Day 10-Day
Other: 5-day

Request 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	Matrix Code	Conc Code
1	WS-ACC12W-SO-89-4A	13:53	13:53	X	S	U	
3	WS-ACC12W-SO-89-4B	13:54	13:54				
4	WS-ACC12W-SO-90-1	14:07	14:07				
5	WS-ACC12W-SO-90-2	14:08	14:08				
6	WS-ACC12W-SO-90-3	14:09	14:09				
7	WS-ACC12W-SO-90-4A	14:10	14:10				
8	WS-ACC12W-SO-91-1	14:16	14:16				
9	WS-ACC12W-SO-91-2	14:17	14:17				
10	WS-ACC12W-SO-91-3	14:18	14:18				

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:	Relinquished by: (signature)	Date/Time:
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35
[Signature]	7/20/17 15:35	[Signature]	7/20/17 15:35

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.

of Containers _____

Preservation Code _____

Container Code _____

Disturbance Material (See 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)

39 Spruce Street
East Longmeadow, MA 01028

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

1760868

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rcoy 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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotiak

Sampled By:

Requested Turnaround Time:
 7-Day 10-Day
 Other: 5-day
 Rush-Approval Required:
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery: EXCEL
 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	Matrix Code	Conc Code
11	WS-ACC12W-SO-91-4	7/20/17	14:18		X	S	U
12	WS-ACC12W-SO-96-1		14:26				
13	WS-ACC12W-SO-96-2		14:28				
14	WS-ACC12W-SO-96-3		14:30				
15	WS-ACC12W-SO-92-1		14:39				
16	WS-ACC12W-SO-92-2		14:40				
17	WS-ACC12W-SO-92-3		14:41				
18	WS-ACC12W-SO-92-4		14:42				
19	WS-ACC12W-SO-93-1		14:44				
20	WS-ACC12W-SO-93-2		14:45				

ANALYSIS REQUESTED
 Arsenic
 SPLP ETPH
 ETPH
 PAHS
 SPLP PCBs
 (Soxhlet) PCBs

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)

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

Program Information
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required
 PWSID # _____
 NELAC and AIHA-LAP, LLC Accredited

Detection Limit Requirements

RES DEC
6:30
18:30

Comments:
 Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time: 7/20/17 15:35
Received by: (signature)	Date/Time: 7/20/17 15:35
Relinquished by: (signature)	Date/Time: 7-20-17
Received by: (signature)	Date/Time: 7/20/17 18:30
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

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

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 SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 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
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:

[Empty box for comments]

D:\HPCHEM\1\DATA\A080217\A0802162.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802162.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	523131	577439	-9
c - 10	1.42	531381	577439	-8
c - 12	2.16	556433	577439	-4
c - 14	2.83	572680	577439	-1
c - 16	3.43	587452	577439	2
c - 18	4.02	583468	577439	1
o-Terphenyl	4.30	646130	577439	
c - 20	4.63	598938	577439	4
c - 22	5.15	612203	577439	6
c - 24	5.60	573363	577439	-1
c - 26	5.99	607933	577439	5
c - 28	6.36	600085	577439	4
c - 30	6.69	590931	577439	2
c - 32	7.00	572798	577439	-1
c - 34	7.30	575085	577439	0
c - 36	7.58	575697	577439	0

* One compound allowed %D <= 50%

Samples

17G0987-05
 17G0911-18@5X
 17G0932-04
 17G1079-01@10X
 17G1079-13@10X
 17G0911-19@5X
 17G0774-19@10X
 17G0911-06@5X

D:\HPCHEM1\DATA\A080217.SEC\A0802163.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802163.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.14	485956	520304	-7
c - 10	1.49	494533	520304	-5
c - 12	2.22	520225	520304	0
c - 14	2.88	533472	520304	3
c - 16	3.47	543057	520304	4
c - 18	4.05	534620	520304	3
o-Terphenyl	4.35	588486	520304	
c - 20	4.66	539844	520304	4
c - 22	5.17	544014	520304	5
c - 24	5.61	505579	520304	-3
c - 26	6.01	530071	520304	2
c - 28	6.36	522013	520304	0
c - 30	6.70	517402	520304	-1
c - 32	7.00	506029	520304	-3
c - 34	7.29	512021	520304	-2
c - 36	7.57	515727	520304	-1

* One compound allowed %D <= 50%

Samples

17G0987-10@20X
 17G1077-14@10X
 17G1077-17@10X
 17G0868-02@200X
 17G0868-07@200X
 17G1079-09@5X
 17G1051-01@20X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0868

Laboratory Sample ID(s):

Sample Date(s):

17G0868-01 thru 17G0868-20

07/20/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Project Manager

Printed Name: Lisa A. Worthington

Date: 08/03/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 8, 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: 17G0869

Enclosed are results of analyses for samples received by the laboratory on July 20, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0869

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-93-3	17G0869-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-93-4	17G0869-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-95-1	17G0869-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-95-2	17G0869-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-95-3	17G0869-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-95-4	17G0869-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-94-1	17G0869-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-94-2A	17G0869-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-94-2B	17G0869-09	Soil		SM 2540G SW-846 8270D	
WS-AOC12W-SO-94-3	17G0869-10	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-DUP-13	17G0869-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-DUP-14	17G0869-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12W-SO-DUP-15	17G0869-13	Soil		SM 2540G SW-846 8082A	
EB-7	17G0869-14	Equipment Blank Water		CTDEP ETPH SW-846 6020A-B SW-846 8082A SW-846 8270D	
EB-8	17G0869-15	Equipment Blank Water		CTDEP ETPH SW-846 6020A-B SW-846 8082A SW-846 8270D	
CT-E	17G0869-16	Water		CTDEP ETPH SW-846 6020A-B SW-846 7470A SW-846 8082A SW-846 8270D	

CASE NARRATIVE SUMMARY

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

For method 6020, only As was requested and reported for sample 17G0869-14 and 15 and the full RCP list for sample 17G0869-16.

For method 8270, only PAHs were requested and reported.

SW-846 6020A-B**Qualifications:****R-03**

Duplicate RPD outside of control limits. Reduced precision is expected for values near the reporting limit.

Analyte & Samples(s) Qualified:**Arsenic**

B182475-DUP1

SW-846 8082A**Qualifications:****MS-19**

Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.

Analyte & Samples(s) Qualified:**Aroclor-1260**

B182745-MS1, B182745-MSD1

Aroclor-1260 [2C]

B182745-MS1, B182745-MSD1

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

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-3

Sampled: 7/20/2017 14:46

Sample ID: 17G0869-01

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	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1260 [1]	0.13	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:27	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		112	30-150					8/8/17 12:27	
Decachlorobiphenyl [2]		94.1	30-150					8/8/17 12:27	
Tetrachloro-m-xylene [1]		101	30-150					8/8/17 12:27	
Tetrachloro-m-xylene [2]		99.1	30-150					8/8/17 12:27	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-3

Sampled: 7/20/2017 14:46

Sample ID: 17G0869-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-4

Sampled: 7/20/2017 14:47

Sample ID: 17G0869-02

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	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:40	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/8/17 12:40	
Decachlorobiphenyl [2]		88.3	30-150					8/8/17 12:40	
Tetrachloro-m-xylene [1]		104	30-150					8/8/17 12:40	
Tetrachloro-m-xylene [2]		102	30-150					8/8/17 12:40	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-93-4

Sampled: 7/20/2017 14:47

Sample ID: 17G0869-02

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	63.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-1

Sampled: 7/20/2017 14:48

Sample ID: 17G0869-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 12:54	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.0	30-150					8/8/17 12:54	
Decachlorobiphenyl [2]		76.8	30-150					8/8/17 12:54	
Tetrachloro-m-xylene [1]		96.7	30-150					8/8/17 12:54	
Tetrachloro-m-xylene [2]		94.6	30-150					8/8/17 12:54	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-1

Sampled: 7/20/2017 14:48

Sample ID: 17G0869-03

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	99.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-2

Sampled: 7/20/2017 14:49

Sample ID: 17G0869-04

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	7/28/17	8/8/17 13:07	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1260 [1]	0.19	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:07	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					8/8/17 13:07	
Decachlorobiphenyl [2]		89.5	30-150					8/8/17 13:07	
Tetrachloro-m-xylene [1]		99.3	30-150					8/8/17 13:07	
Tetrachloro-m-xylene [2]		96.7	30-150					8/8/17 13:07	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-2

Sampled: 7/20/2017 14:49

Sample ID: 17G0869-04

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	88.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-3

Sampled: 7/20/2017 14:50

Sample ID: 17G0869-05

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	7/28/17	8/8/17 13:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1260 [1]	0.14	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:19	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.2	30-150					8/8/17 13:19	
Decachlorobiphenyl [2]		73.0	30-150					8/8/17 13:19	
Tetrachloro-m-xylene [1]		84.6	30-150					8/8/17 13:19	
Tetrachloro-m-xylene [2]		82.2	30-150					8/8/17 13:19	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-3

Sampled: 7/20/2017 14:50

Sample ID: 17G0869-05

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	88.3		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-4

Sampled: 7/20/2017 14:51

Sample ID: 17G0869-06

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	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:32	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.7	30-150					8/8/17 13:32	
Decachlorobiphenyl [2]		81.5	30-150					8/8/17 13:32	
Tetrachloro-m-xylene [1]		87.0	30-150					8/8/17 13:32	
Tetrachloro-m-xylene [2]		90.7	30-150					8/8/17 13:32	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-95-4

Sampled: 7/20/2017 14:51

Sample ID: 17G0869-06

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	74.9		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-1

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-07

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	7/28/17	8/8/17 13:45	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1260 [1]	0.31	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 13:45	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	110		30-150				8/8/17 13:45		
Decachlorobiphenyl [2]	93.7		30-150				8/8/17 13:45		
Tetrachloro-m-xylene [1]	104		30-150				8/8/17 13:45		
Tetrachloro-m-xylene [2]	101		30-150				8/8/17 13:45		

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-1

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-07

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	99.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-2A

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-08

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	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1221 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1232 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1242 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1248 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1254 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1260 [1]	2.1	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1262 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Aroclor-1268 [1]	ND	0.42	mg/Kg dry	20		SW-846 8082A	7/28/17	8/8/17 15:26	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.2	30-150					8/8/17 15:26	
Decachlorobiphenyl [2]		83.2	30-150					8/8/17 15:26	
Tetrachloro-m-xylene [1]		106	30-150					8/8/17 15:26	
Tetrachloro-m-xylene [2]		94.0	30-150					8/8/17 15:26	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-2A

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-08

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	94.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-2B

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-09

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	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Benzo(a)anthracene	0.50	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Benzo(a)pyrene	0.53	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Benzo(b)fluoranthene	0.89	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Benzo(g,h,i)perylene	0.41	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Benzo(k)fluoranthene	0.30	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Chrysene	0.71	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Fluoranthene	0.93	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Indeno(1,2,3-cd)pyrene	0.40	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
2-Methylnaphthalene	0.79	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Naphthalene	0.41	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Phenanthrene	1.3	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Pyrene	0.86	0.18	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 19:21	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		63.2	30-130					7/31/17 19:21	
2-Fluorobiphenyl		66.8	30-130					7/31/17 19:21	
p-Terphenyl-d14		70.0	30-130					7/31/17 19:21	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-2B

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-09

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	93.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-3

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-10

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	7/28/17	8/8/17 14:10	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1260 [1]	0.11	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:10	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.2	30-150					8/8/17 14:10	
Decachlorobiphenyl [2]		66.3	30-150					8/8/17 14:10	
Tetrachloro-m-xylene [1]		74.5	30-150					8/8/17 14:10	
Tetrachloro-m-xylene [2]		73.9	30-150					8/8/17 14:10	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-94-3

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-10

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	90.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-13

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-11

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.1	30-150					8/8/17 14:23	
Decachlorobiphenyl [2]		63.9	30-150					8/8/17 14:23	
Tetrachloro-m-xylene [1]		83.1	30-150					8/8/17 14:23	
Tetrachloro-m-xylene [2]		80.8	30-150					8/8/17 14:23	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-13

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-11

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	95.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-14

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1260 [1]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:36	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	99.4		30-150				8/8/17 14:36		
Decachlorobiphenyl [2]	86.1		30-150				8/8/17 14:36		
Tetrachloro-m-xylene [1]	92.4		30-150				8/8/17 14:36		
Tetrachloro-m-xylene [2]	94.3		30-150				8/8/17 14:36		

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-14

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-15

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1260 [1]	0.36	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/8/17 14:49	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					8/8/17 14:49	
Decachlorobiphenyl [2]		88.4	30-150					8/8/17 14:49	
Tetrachloro-m-xylene [1]		102	30-150					8/8/17 14:49	
Tetrachloro-m-xylene [2]		98.4	30-150					8/8/17 14:49	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-DUP-15

Sampled: 7/20/2017 00:00

Sample ID: 17G0869-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:53	MRL

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-7

Sampled: 7/20/2017 12:20

Sample ID: 17G0869-14

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	0.28	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Acenaphthylene (SIM)	ND	0.28	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Anthracene (SIM)	ND	0.18	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Benzo(a)anthracene (SIM)	ND	0.046	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Benzo(a)pyrene (SIM)	ND	0.092	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Benzo(b)fluoranthene (SIM)	ND	0.046	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.46	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Benzo(k)fluoranthene (SIM)	ND	0.18	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Chrysene (SIM)	ND	0.18	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.18	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Fluoranthene (SIM)	ND	0.46	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Fluorene (SIM)	ND	0.92	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.18	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
2-Methylnaphthalene (SIM)	ND	0.92	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Naphthalene (SIM)	ND	0.92	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Phenanthrene (SIM)	ND	0.046	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Pyrene (SIM)	ND	0.92	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:16	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		66.4	30-130					7/31/17 11:16	
2-Fluorobiphenyl		62.5	30-130					7/31/17 11:16	
p-Terphenyl-d14		54.8	30-130					7/31/17 11:16	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-7

Sampled: 7/20/2017 12:20

Sample ID: 17G0869-14

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	7/25/17	7/27/17 18:30	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:30	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		47.2	30-150					7/27/17 18:30	
Decachlorobiphenyl [2]		50.9	30-150					7/27/17 18:30	
Tetrachloro-m-xylene [1]		82.8	30-150					7/27/17 18:30	
Tetrachloro-m-xylene [2]		86.0	30-150					7/27/17 18:30	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-7

Sampled: 7/20/2017 12:20

Sample ID: 17G0869-14

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	7/26/17	7/27/17 23:26	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		111	50-150					7/27/17 23:26	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-7

Sampled: 7/20/2017 12:20

Sample ID: 17G0869-14

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:28	WSD

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-8

Sampled: 7/20/2017 12:22

Sample ID: 17G0869-15

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	7/27/17	7/31/17 11:45	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Benzo(a)anthracene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Benzo(b)fluoranthene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Phenanthrene (SIM)	ND	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 11:45	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		73.9	30-130					7/31/17 11:45	
2-Fluorobiphenyl		68.5	30-130					7/31/17 11:45	
p-Terphenyl-d14		60.4	30-130					7/31/17 11:45	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-8

Sampled: 7/20/2017 12:22

Sample ID: 17G0869-15

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	7/25/17	7/27/17 18:43	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:43	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		46.6	30-150					7/27/17 18:43	
Decachlorobiphenyl [2]		50.3	30-150					7/27/17 18:43	
Tetrachloro-m-xylene [1]		86.1	30-150					7/27/17 18:43	
Tetrachloro-m-xylene [2]		88.8	30-150					7/27/17 18:43	

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: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-8

Sampled: 7/20/2017 12:22

Sample ID: 17G0869-15

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	7/26/17	7/27/17 23:43	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		101	50-150					7/27/17 23:43	

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: 17G0869

Date Received: 7/20/2017

Field Sample #: EB-8

Sampled: 7/20/2017 12:22

Sample ID: 17G0869-15

Sample Matrix: Equipment Blank Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:44	WSD

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: CT-E

Sampled: 7/20/2017 13:30

Sample ID: 17G0869-16

Sample Matrix: 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	7/27/17	7/31/17 12:13	CJM
Acenaphthylene (SIM)	ND	0.30	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Benzo(a)anthracene (SIM)	0.076	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Benzo(a)pyrene (SIM)	ND	0.10	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Benzo(b)fluoranthene (SIM)	0.14	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Benzo(g,h,i)perylene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Benzo(k)fluoranthene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Chrysene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Dibenz(a,h)anthracene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Fluoranthene (SIM)	ND	0.50	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Fluorene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Indeno(1,2,3-cd)pyrene (SIM)	ND	0.20	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
2-Methylnaphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Naphthalene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Phenanthrene (SIM)	0.086	0.050	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Pyrene (SIM)	ND	1.0	µg/L	1		SW-846 8270D	7/27/17	7/31/17 12:13	CJM
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		68.5	30-130					7/31/17 12:13	
2-Fluorobiphenyl		62.2	30-130					7/31/17 12:13	
p-Terphenyl-d14		42.7	30-130					7/31/17 12:13	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: CT-E

Sampled: 7/20/2017 13:30

Sample ID: 17G0869-16

Sample Matrix: 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	7/25/17	7/27/17 18:55	JMB
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1254 [2]	0.23	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	7/25/17	7/27/17 18:55	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		59.6	30-150					7/27/17 18:55	
Decachlorobiphenyl [2]		65.3	30-150					7/27/17 18:55	
Tetrachloro-m-xylene [1]		83.9	30-150					7/27/17 18:55	
Tetrachloro-m-xylene [2]		88.3	30-150					7/27/17 18:55	

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

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: CT-E

Sampled: 7/20/2017 13:30

Sample ID: 17G0869-16

Sample Matrix: Water

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	0.72	0.075	mg/L	1		CTDEP ETPH	7/26/17	7/28/17 3:33	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl	109		50-150					7/28/17 3:33	

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

Sample Description:

Work Order: 17G0869

Date Received: 7/20/2017

Field Sample #: CT-E

Sampled: 7/20/2017 13:30

Sample ID: 17G0869-16

Sample Matrix: Water

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Antimony	ND	5.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Arsenic	4.4	2.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Barium	97	50	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Beryllium	ND	2.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Cadmium	ND	2.5	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Chromium	12	5.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Copper	39	25	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Lead	93	5.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Mercury	ND	0.00010	mg/L	1		SW-846 7470A	7/24/17	7/25/17 10:51	TJK
Nickel	ND	25	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Selenium	ND	25	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Silver	ND	2.5	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Thallium	ND	1.0	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Vanadium	ND	25	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD
Zinc	ND	50	µg/L	5		SW-846 6020A-B	7/25/17	7/27/17 8:48	WSD

Sample Extraction Data

Prep Method: SW-846 3510C-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G0869-14 [EB-7]	B182547	1000	1.00	07/26/17
17G0869-15 [EB-8]	B182547	1000	1.00	07/26/17
17G0869-16 [CT-E]	B182547	1000	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0869-01 [WS-AOC12W-SO-93-3]	B182782	07/28/17
17G0869-02 [WS-AOC12W-SO-93-4]	B182782	07/28/17
17G0869-03 [WS-AOC12W-SO-95-1]	B182782	07/28/17
17G0869-04 [WS-AOC12W-SO-95-2]	B182782	07/28/17
17G0869-05 [WS-AOC12W-SO-95-3]	B182782	07/28/17
17G0869-06 [WS-AOC12W-SO-95-4]	B182782	07/28/17
17G0869-07 [WS-AOC12W-SO-94-1]	B182782	07/28/17
17G0869-08 [WS-AOC12W-SO-94-2A]	B182782	07/28/17
17G0869-09 [WS-AOC12W-SO-94-2B]	B182782	07/28/17
17G0869-10 [WS-AOC12W-SO-94-3]	B182782	07/28/17
17G0869-11 [WS-AOC12W-SO-DUP-13]	B182782	07/28/17
17G0869-12 [WS-AOC12W-SO-DUP-14]	B182782	07/28/17
17G0869-13 [WS-AOC12W-SO-DUP-15]	B182782	07/28/17

Prep Method: SW-846 3005A-SW-846 6020A-B

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G0869-14 [EB-7]	B182475	50.0	50.0	07/25/17
17G0869-15 [EB-8]	B182475	50.0	50.0	07/25/17
17G0869-16 [CT-E]	B182475	50.0	50.0	07/25/17

Prep Method: SW-846 7470A Prep-SW-846 7470A

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G0869-16 [CT-E]	B182382	6.00	6.00	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0869-01 [WS-AOC12W-SO-93-3]	B182745	10.0	10.0	07/28/17
17G0869-02 [WS-AOC12W-SO-93-4]	B182745	10.0	10.0	07/28/17
17G0869-03 [WS-AOC12W-SO-95-1]	B182745	10.0	10.0	07/28/17
17G0869-04 [WS-AOC12W-SO-95-2]	B182745	10.0	10.0	07/28/17
17G0869-05 [WS-AOC12W-SO-95-3]	B182745	10.0	10.0	07/28/17
17G0869-06 [WS-AOC12W-SO-95-4]	B182745	10.0	10.0	07/28/17
17G0869-07 [WS-AOC12W-SO-94-1]	B182745	10.0	10.0	07/28/17
17G0869-08 [WS-AOC12W-SO-94-2A]	B182745	10.0	10.0	07/28/17
17G0869-10 [WS-AOC12W-SO-94-3]	B182745	10.0	10.0	07/28/17
17G0869-11 [WS-AOC12W-SO-DUP-13]	B182745	10.0	10.0	07/28/17
17G0869-12 [WS-AOC12W-SO-DUP-14]	B182745	10.0	10.0	07/28/17
17G0869-13 [WS-AOC12W-SO-DUP-15]	B182745	10.0	10.0	07/28/17

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Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G0869-14 [EB-7]	B182466	1000	10.0	07/25/17
17G0869-15 [EB-8]	B182466	1000	10.0	07/25/17
17G0869-16 [CT-E]	B182466	1000	10.0	07/25/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0869-09 [WS-AOC12W-SO-94-2B]	B182710	30.0	1.00	07/27/17

Prep Method: SW-846 3510C-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
17G0869-14 [EB-7]	B182651	980	0.900	07/27/17
17G0869-15 [EB-8]	B182651	1000	1.00	07/27/17
17G0869-16 [CT-E]	B182651	900	0.900	07/27/17

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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
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Batch B182651 - SW-846 3510C

Blank (B182651-BLK1)

Prepared: 07/27/17 Analyzed: 07/28/17

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							

LCS (B182651-BS1)

Prepared: 07/27/17 Analyzed: 07/28/17

Acenaphthene (SIM)	38.2	7.5	µg/L	50.0		76.5	40-140			
Acenaphthylene (SIM)	37.8	7.5	µg/L	50.0		75.6	40-140			
Anthracene (SIM)	39.8	5.0	µg/L	50.0		79.7	40-140			
Benzo(a)anthracene (SIM)	39.7	1.2	µg/L	50.0		79.4	40-140			
Benzo(a)pyrene (SIM)	41.1	2.5	µg/L	50.0		82.2	40-140			
Benzo(b)fluoranthene (SIM)	43.8	1.2	µg/L	50.0		87.7	40-140			
Benzo(g,h,i)perylene (SIM)	40.8	12	µg/L	50.0		81.5	40-140			
Benzo(k)fluoranthene (SIM)	41.7	5.0	µg/L	50.0		83.4	40-140			
Chrysene (SIM)	38.2	5.0	µg/L	50.0		76.4	40-140			
Dibenz(a,h)anthracene (SIM)	43.8	5.0	µg/L	50.0		87.6	40-140			
Fluoranthene (SIM)	40.1	12	µg/L	50.0		80.2	40-140			
Fluorene (SIM)	40.4	25	µg/L	50.0		80.8	40-140			
Indeno(1,2,3-cd)pyrene (SIM)	42.4	5.0	µg/L	50.0		84.7	40-140			
2-Methylnaphthalene (SIM)	39.5	25	µg/L	50.0		79.0	40-140			
Naphthalene (SIM)	38.6	25	µg/L	50.0		77.3	40-140			
Phenanthrene (SIM)	39.0	1.2	µg/L	50.0		78.1	40-140			
Pyrene (SIM)	39.2	25	µg/L	50.0		78.5	40-140			

LCS Dup (B182651-BSD1)

Prepared: 07/27/17 Analyzed: 07/28/17

Acenaphthene (SIM)	42.2	7.5	µg/L	50.0		84.3	40-140	9.70	20	
Acenaphthylene (SIM)	41.3	7.5	µg/L	50.0		82.6	40-140	8.86	20	
Anthracene (SIM)	44.0	5.0	µg/L	50.0		88.0	40-140	9.84	20	
Benzo(a)anthracene (SIM)	43.4	1.2	µg/L	50.0		86.7	40-140	8.79	20	
Benzo(a)pyrene (SIM)	45.9	2.5	µg/L	50.0		91.8	40-140	11.1	20	
Benzo(b)fluoranthene (SIM)	48.4	1.2	µg/L	50.0		96.9	40-140	9.97	20	
Benzo(g,h,i)perylene (SIM)	45.4	12	µg/L	50.0		90.8	40-140	10.9	20	
Benzo(k)fluoranthene (SIM)	45.6	5.0	µg/L	50.0		91.3	40-140	8.98	20	
Chrysene (SIM)	41.4	5.0	µg/L	50.0		82.8	40-140	8.04	20	
Dibenz(a,h)anthracene (SIM)	48.9	5.0	µg/L	50.0		97.8	40-140	10.9	20	
Fluoranthene (SIM)	44.7	12	µg/L	50.0		89.4	40-140	10.8	20	
Fluorene (SIM)	44.0	25	µg/L	50.0		88.0	40-140	8.47	20	
Indeno(1,2,3-cd)pyrene (SIM)	47.3	5.0	µg/L	50.0		94.6	40-140	11.0	20	‡
2-Methylnaphthalene (SIM)	44.2	25	µg/L	50.0		88.4	40-140	11.3	20	
Naphthalene (SIM)	42.8	25	µg/L	50.0		85.5	40-140	10.1	20	

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B182651 - SW-846 3510C

LCS Dup (B182651-BSD1)

Prepared: 07/27/17 Analyzed: 07/28/17

Phenanthrene (SIM)	43.1	1.2	µg/L	50.0		86.2	40-140	9.86	20	
Pyrene (SIM)	42.9	25	µg/L	50.0		85.8	40-140	8.94	20	

Batch B182710 - SW-846 3546

Blank (B182710-BLK1)

Prepared: 07/27/17 Analyzed: 07/31/17

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	2.49		mg/Kg wet	3.33		74.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.33		77.0	30-130			
Surrogate: p-Terphenyl-d14	2.81		mg/Kg wet	3.33		84.2	30-130			

LCS (B182710-BS1)

Prepared: 07/27/17 Analyzed: 07/31/17

Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Acenaphthylene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140			
Anthracene	1.05	0.17	mg/Kg wet	1.67		62.9	40-140			
Benzo(a)anthracene	0.959	0.17	mg/Kg wet	1.67		57.5	40-140			
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Benzo(b)fluoranthene	0.963	0.17	mg/Kg wet	1.67		57.8	40-140			
Benzo(g,h,i)perylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Benzo(k)fluoranthene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140			
Chrysene	0.920	0.17	mg/Kg wet	1.67		55.2	40-140			
Dibenz(a,h)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		61.5	40-140			
Fluorene	1.02	0.17	mg/Kg wet	1.67		61.0	40-140			
Indeno(1,2,3-cd)pyrene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140			
2-Methylnaphthalene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Naphthalene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
Phenanthrene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Pyrene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140			
Surrogate: Nitrobenzene-d5	2.14		mg/Kg wet	3.33		64.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.17		mg/Kg wet	3.33		65.2	30-130			
Surrogate: p-Terphenyl-d14	2.12		mg/Kg wet	3.33		63.6	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 B182710 - SW-846 3546										
LCS Dup (B182710-BSD1)										
					Prepared: 07/27/17 Analyzed: 07/31/17					
Acenaphthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	2.36	30	
Acenaphthylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	5.70	30	
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	3.22	30	
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	6.17	30	
Benzo(a)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	5.63	30	
Benzo(b)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.3	40-140	9.15	30	
Benzo(g,h,i)perylene	1.16	0.17	mg/Kg wet	1.67		69.5	40-140	6.78	30	
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140	8.78	30	
Chrysene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	7.30	30	
Dibenz(a,h)anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	6.70	30	
Fluoranthene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140	4.88	30	
Fluorene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140	6.16	30	
Indeno(1,2,3-cd)pyrene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	11.1	30	
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140	12.8	30	
Naphthalene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.5	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	6.70	30	
Pyrene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140	9.04	30	
Surrogate: Nitrobenzene-d5	2.44		mg/Kg wet	3.33		73.3	30-130			
Surrogate: 2-Fluorobiphenyl	2.29		mg/Kg wet	3.33		68.6	30-130			
Surrogate: p-Terphenyl-d14	2.32		mg/Kg wet	3.33		69.6	30-130			

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 B182466 - SW-846 3510C										
Blank (B182466-BLK1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
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	1.76		µg/L	2.00		88.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.91		µg/L	2.00		95.5	30-150			
Surrogate: Tetrachloro-m-xylene	1.66		µg/L	2.00		83.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.79		µg/L	2.00		89.7	30-150			
LCS (B182466-BS1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
Aroclor-1016	0.49	0.20	µg/L	0.500		98.2	40-140			
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		102	40-140			
Aroclor-1260	0.43	0.20	µg/L	0.500		86.5	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.6	40-140			
Surrogate: Decachlorobiphenyl	1.70		µg/L	2.00		85.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.85		µg/L	2.00		92.4	30-150			
Surrogate: Tetrachloro-m-xylene	1.66		µg/L	2.00		83.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.71		µg/L	2.00		85.4	30-150			
LCS Dup (B182466-BSD1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
Aroclor-1016	0.49	0.20	µg/L	0.500		98.8	40-140	0.639	20	
Aroclor-1016 [2C]	0.51	0.20	µg/L	0.500		103	40-140	1.11	20	
Aroclor-1260	0.45	0.20	µg/L	0.500		89.3	40-140	3.21	20	
Aroclor-1260 [2C]	0.48	0.20	µg/L	0.500		96.5	40-140	3.03	20	
Surrogate: Decachlorobiphenyl	1.76		µg/L	2.00		88.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.91		µg/L	2.00		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.69		µg/L	2.00		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.74		µg/L	2.00		86.9	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 B182745 - SW-846 3540C										
Blank (B182745-BLK1)										
Prepared: 07/28/17 Analyzed: 07/31/17										
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	0.220		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.190		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg wet	0.200		78.7	30-150			
LCS (B182745-BS1)										
Prepared: 07/28/17 Analyzed: 07/31/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		92.5	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.2	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.1	40-140			
Surrogate: Decachlorobiphenyl	0.216		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.189		mg/Kg wet	0.200		94.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.165		mg/Kg wet	0.200		82.7	30-150			
LCS Dup (B182745-BSD1)										
Prepared: 07/28/17 Analyzed: 07/31/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.9	40-140	0.729	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.1	40-140	1.71	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.1	40-140	3.32	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.4	40-140	5.26	30	
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.188		mg/Kg wet	0.200		94.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.156		mg/Kg wet	0.200		77.9	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
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Batch B182745 - SW-846 3540C

Matrix Spike (B182745-MS1)

Source: 17G0869-08

Prepared: 07/28/17 Analyzed: 08/08/17

Aroclor-1016	0.19	0.11	mg/Kg dry	0.211	ND	91.2	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.211	ND	104	40-140			
Aroclor-1260	1.7	0.11	mg/Kg dry	0.211	2.1	-200 *	40-140			MS-19
Aroclor-1260 [2C]	1.8	0.11	mg/Kg dry	0.211	2.0	-112 *	40-140			MS-19
Surrogate: Decachlorobiphenyl	0.190		mg/Kg dry	0.211		89.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg dry	0.211		81.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.203		mg/Kg dry	0.211		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg dry	0.211		92.6	30-150			

Matrix Spike Dup (B182745-MSD1)

Source: 17G0869-08

Prepared: 07/28/17 Analyzed: 08/08/17

Aroclor-1016	0.20	0.11	mg/Kg dry	0.211	ND	93.6	40-140	2.55	50	
Aroclor-1016 [2C]	0.20	0.11	mg/Kg dry	0.211	ND	94.3	40-140	9.77	50	
Aroclor-1260	1.6	0.11	mg/Kg dry	0.211	2.1	-228 *	40-140	3.55	50	MS-19
Aroclor-1260 [2C]	1.7	0.11	mg/Kg dry	0.211	2.0	-152 *	40-140	4.88	50	MS-19
Surrogate: Decachlorobiphenyl	0.193		mg/Kg dry	0.211		91.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.171		mg/Kg dry	0.211		80.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg dry	0.211		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.192		mg/Kg dry	0.211		90.7	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 B182547 - SW-846 3510C										
Blank (B182547-BLK1)										
					Prepared: 07/26/17 Analyzed: 07/27/17					
CT ETPH	ND	0.075	mg/L							
Surrogate: o-Terphenyl	0.100		mg/L	0.100		100	50-150			
LCS (B182547-BS1)										
					Prepared: 07/26/17 Analyzed: 07/27/17					
CT ETPH	0.749	0.075	mg/L	1.00		74.9	60-120			
Surrogate: o-Terphenyl	0.0879		mg/L	0.100		87.9	50-150			
LCS Dup (B182547-BSD1)										
					Prepared: 07/26/17 Analyzed: 07/27/17					
CT ETPH	0.937	0.075	mg/L	1.00		93.7	60-120	22.3	30	
Surrogate: o-Terphenyl	0.0879		mg/L	0.100		87.9	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
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Batch B182382 - SW-846 7470A Prep

Blank (B182382-BLK1)

Prepared: 07/24/17 Analyzed: 07/25/17

Mercury ND 0.00010 mg/L

LCS (B182382-BS1)

Prepared: 07/24/17 Analyzed: 07/25/17

Mercury 0.00192 0.00010 mg/L 0.00200 95.8 80-120

LCS Dup (B182382-BSD1)

Prepared: 07/24/17 Analyzed: 07/25/17

Mercury 0.00204 0.00010 mg/L 0.00200 102 80-120 6.01 20

Batch B182475 - SW-846 3005A

Blank (B182475-BLK1)

Prepared: 07/25/17 Analyzed: 07/27/17

Antimony	ND	5.0	µg/L						
Arsenic	ND	2.0	µg/L						
Barium	ND	50	µg/L						
Beryllium	ND	2.0	µg/L						
Cadmium	ND	2.5	µg/L						
Chromium	ND	5.0	µg/L						
Copper	ND	25	µg/L						
Lead	ND	5.0	µg/L						
Nickel	ND	25	µg/L						
Selenium	ND	25	µg/L						
Silver	ND	2.5	µg/L						
Thallium	ND	1.0	µg/L						
Vanadium	ND	25	µg/L						
Zinc	ND	50	µg/L						

LCS (B182475-BS1)

Prepared: 07/25/17 Analyzed: 07/27/17

Antimony	263	5.0	µg/L	250	105	80-120
Arsenic	254	2.0	µg/L	250	102	80-120
Barium	256	50	µg/L	250	102	80-120
Beryllium	255	2.0	µg/L	250	102	80-120
Cadmium	262	2.5	µg/L	250	105	80-120
Chromium	256	5.0	µg/L	250	102	80-120
Copper	256	25	µg/L	250	102	80-120
Lead	260	5.0	µg/L	250	104	80-120
Nickel	257	25	µg/L	250	103	80-120
Selenium	231	25	µg/L	250	92.4	80-120
Silver	252	2.5	µg/L	250	101	80-120
Thallium	245	1.0	µg/L	250	97.9	80-120
Vanadium	260	25	µg/L	250	104	80-120
Zinc	251	50	µg/L	250	100	80-120

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B182475 - SW-846 3005A

LCS Dup (B182475-BSD1)

Prepared: 07/25/17 Analyzed: 07/27/17

Antimony	237	5.0	µg/L	250		94.7	80-120	10.4	20	
Arsenic	232	2.0	µg/L	250		92.8	80-120	9.09	20	
Barium	235	50	µg/L	250		94.1	80-120	8.24	20	
Beryllium	235	2.0	µg/L	250		94.1	80-120	8.16	20	
Cadmium	235	2.5	µg/L	250		93.9	80-120	11.0	20	
Chromium	227	5.0	µg/L	250		90.6	80-120	12.2	20	
Copper	227	25	µg/L	250		90.9	80-120	11.8	20	
Lead	233	5.0	µg/L	250		93.2	80-120	11.0	20	
Nickel	230	25	µg/L	250		92.1	80-120	10.8	20	
Selenium	214	25	µg/L	250		85.4	80-120	7.87	20	
Silver	228	2.5	µg/L	250		91.3	80-120	10.0	20	
Thallium	220	1.0	µg/L	250		87.9	80-120	10.8	20	
Vanadium	230	25	µg/L	250		91.9	80-120	12.2	20	
Zinc	223	50	µg/L	250		89.1	80-120	11.8	20	

Duplicate (B182475-DUP1)

Source: 17G0869-14

Prepared: 07/25/17 Analyzed: 07/27/17

Antimony	ND	5.0	µg/L		ND			NC	20	
Arsenic	ND	2.0	µg/L		ND			NC	20	R-03
Barium	ND	50	µg/L		ND			NC	20	
Beryllium	ND	2.0	µg/L		ND			NC	20	
Cadmium	ND	2.5	µg/L		ND			NC	20	
Chromium	ND	5.0	µg/L		ND			NC	20	
Copper	ND	25	µg/L		ND			NC	20	
Lead	ND	5.0	µg/L		ND			NC	20	
Nickel	ND	25	µg/L		ND			NC	20	
Selenium	ND	25	µg/L		ND			NC	20	
Silver	ND	2.5	µg/L		ND			NC	20	
Thallium	ND	1.0	µg/L		ND			NC	20	
Vanadium	ND	25	µg/L		ND			NC	20	
Zinc	ND	50	µg/L		ND			NC	20	

Matrix Spike (B182475-MS1)

Source: 17G0869-14

Prepared: 07/25/17 Analyzed: 07/27/17

Antimony	242	5.0	µg/L	250	ND	96.9	75-125			
Arsenic	238	2.0	µg/L	250	ND	95.0	75-125			
Barium	238	50	µg/L	250	ND	95.2	75-125			
Beryllium	242	2.0	µg/L	250	ND	96.7	75-125			
Cadmium	241	2.5	µg/L	250	ND	96.6	75-125			
Chromium	236	5.0	µg/L	250	ND	94.3	75-125			
Copper	234	25	µg/L	250	ND	93.7	75-125			
Lead	240	5.0	µg/L	250	ND	96.1	75-125			
Nickel	237	25	µg/L	250	ND	94.9	75-125			
Selenium	229	25	µg/L	250	ND	91.7	75-125			
Silver	235	2.5	µg/L	250	ND	94.1	75-125			
Thallium	227	1.0	µg/L	250	ND	90.6	75-125			
Vanadium	234	25	µg/L	250	ND	93.8	75-125			
Zinc	229	50	µg/L	250	ND	91.7	75-125			

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 B182782 - % Solids										
Duplicate (B182782-DUP1)	Source: 17G0869-01			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	78.9		% Wt		84.6			6.97	20	
Duplicate (B182782-DUP2)	Source: 17G0869-08			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	94.8		% Wt		94.6			0.211	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-93-3

SW-846 8082A

Lab Sample ID: 17G0869-01 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-95-2

Lab Sample ID: 17G0869-04 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	10.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-95-3

Lab Sample ID: 17G0869-05 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-94-1

Lab Sample ID: 17G0869-07 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.31	
	2	0.000	-0.030	0.030	0.29	6.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-94-2A

Lab Sample ID: 17G0869-08 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	2.1	
	2	0.000	-0.030	0.030	2.0	4.9

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

WS-AOC12W-SO-94-3

Lab Sample ID: 17G0869-10 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.11	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12W-SO-DUP-15

SW-846 8082A

Lab Sample ID: 17G0869-13 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.36	
	2	0.000	-0.030	0.030	0.33	8.7

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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.
MS-19	Sample to spike ratio is greater than or equal to 4:1. Spiked amount is not representative of the native amount in the sample. Appropriate or meaningful recoveries cannot be calculated.
R-03	Duplicate RPD outside of control limits. Reduced precision is expected for values near the reporting limit.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Water	
CT ETPH	CT
SW-846 6020A-B in Water	
Antimony	CT,NH,NY,ME,VA,NC
Arsenic	CT,NH,NY,ME,VA,NC
Barium	CT,NH,NY,ME,VA,NC
Beryllium	CT,NH,NY,ME,VA,NC
Cadmium	CT,NH,NY,RI,ME,VA,NC
Chromium	CT,NH,NY,ME,VA,NC
Copper	CT,NH,NY,ME,VA,NC
Lead	CT,NH,NY,ME,VA,NC
Nickel	CT,NH,NY,ME,VA,NC
Selenium	CT,NH,NY,ME,VA,NC
Silver	CT,NH,NY,ME,VA,NC
Thallium	CT,NH,NY,ME,VA,NC
Vanadium	CT,NH,NY,ME,VA,NC
Zinc	CT,NH,NY,ME,VA,NC
SW-846 7470A in Water	
Mercury	CT,NH,NY,NC,ME,VA
SW-846 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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Water</i>	
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
<i>SW-846 8270D in Soil</i>	
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 Public 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

1760869

Phone: 413-525-2332
Fax: 413-525-6405



Email: info@contestlabs.com

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: Malcolm Beeler (Weston & Sampson)

Invoice Recipient: Chris Berthiaume/Will Sirotnak

Sampled By: Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
 7-Day 10-Day 5-day
 Other: _____

Rush Approval Required
 3-Day 4-Day
 Data Delivery: EXCEL PDF

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	Matrix Code	Conc Code
1	WS-ACC12W-50-93-3	7/20/17	14:46		X	S	U
2	WS-ACC12W-50-93-4		14:47				
3	WS-ACC12W-50-95-1		14:48				
4	WS-ACC12W-50-95-2		14:49				
5	WS-ACC12W-50-95-3		14:50				
6	WS-ACC12W-50-95-4		14:51				
7	WS-ACC12W-50-94-1						
8	WS-ACC12W-50-94-2A (MS-MSD)						
9	WS-ACC12W-50-94-2B						
10	WS-ACC12W-50-94-3						

Comments: WS-ACC12W-50-94-2A (MS-MSD)
 Please hold excess volumes for possible SPL 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

of Containers: _____
 2 Preservation Code: _____
 3 Container Code: _____

Drinking Water/Metal Samples
 Field Filtered
 Lab to Filter

Offices/Plastic 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 = Summ
 T = T
 C

Program Information

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

NETAC 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

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 5-day
Other: _____

Rush Approval Required
 1-Day 3-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	Matrix Code	Conc Code
11	WS-ACC12W-SO-DUP-13	7/20/19			X	S	U
12	WS-ACC12W-SO-DUP-14						
13	WS-ACC12W-SO-DUP-15						

of Containers
 2 Preservation Code
 3 Container Code

Dissolved Metals Samples
 Field Filtered
 Lab to Filter

Other Appropriate 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)

ANALYSIS REQUESTED

SPLP
 (soxhlet) PCBs
 Arsenic
 SPLP ETPH
 ETPH
 PAHs

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

Comments:

Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:	Relinquished by: (signature)	Date/Time:
	7/20/17 1835						
	7/20/17 1835						
	7/20/17 1830						

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

con-test
ANALYTICAL LABORATORY

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

Weston & Sampson Engineers
273 Dividend Rd Rocky Hill, CT

860 513-1473
English Station

510 Grand Ave, New Haven, CT

2170495
Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume/Will Strotnak

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 #:

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN	IN
PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA	PA
Arsenic		ETPH		PAHs		PCB																																	

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

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

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

Relinquished by: (signature)	Date/Time	Relinquished by: (signature)	Date/Time
[Signature]	7/20/17 1335	[Signature]	7/20/17 1535
[Signature]	7/20/17 1535	[Signature]	7/20/17 1830
[Signature]	7/20/17 1830	[Signature]	
[Signature]		[Signature]	

1760869

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Weston B Sampson

Rocky Hill, CT

English Station

510 Grand Ave New Haven

Project Number: 2170495

Project Manager: Malcolm Becker

Con-Test Quote Name/Number:

Invoice Recipient:

Sampled By: TPS

Requested Turnaround Time: 7-Day 10-Day

Due Date: Rush-Approval Required 3-Day 4-Day

Data Delivery: EXCEL

Other:

CLP Like Data Pkg Required:

Email To: BeckerMalcolm@con.com

Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
66	CT-E	7/20/17	1330		X	O	U

of Containers

Preservation Code

Container Code

Dissolved Metals Samples

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

Matrix Codes:
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil
 SL = Sludge
 SOL = Solid
 O = Other (please define)
Waste

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)

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

ANALYSIS REQUESTED

PCBS
PAHs
BPH
RSR-15

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) [Signature] Date/Time: 7/20/17 1535


Received by: (signature) [Signature] Date/Time: 7/20/17 1535

Relinquished by: (signature) [Signature] Date/Time: 7/20/17 1535

Received by: (signature) [Signature] Date/Time: 7/20/17 1535

Relinquished by: (signature) [Signature] Date/Time: 7/20/17 1535

Received by: (signature) [Signature] Date/Time: 7/20/17 1535



MA MCP Required

MCP Certification Form Required

CT RCP Required

RCP Certification Form Required

MA State DW Required

PWSID #

Project Entity: Government Federal City

Municipality: 21 J Brownfield

MWRA School MBTA

WRTA Chromatogram AIHA-LAP, LLC

Other:

NEPAC and AIHA-LAP, LLC Accredited

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 SM Date 7/20/17 Time 1830
 How were the samples received? In Cooler T No Cooler _____ On Ice T No Ice _____
 Direct from Sampling _____ Ambient _____ Melted Ice _____
 Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 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 SM
 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 T Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.	19	1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz <u>Amb</u> /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	

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\A072717\A0727054.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 7/27/17
 Data File Name A0727054.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.08	436313	500317	-13
c - 10	1.43	444080	500317	-11
c - 12	2.16	476291	500317	-5
c - 14	2.84	498291	500317	0
c - 16	3.44	515196	500317	3
c - 18	4.02	514418	500317	3
o-Terphenyl	4.31	599860	500317	
c - 20	4.63	526464	500317	5
c - 22	5.15	537038	500317	7
c - 24	5.60	502378	500317	0
c - 26	6.00	531040	500317	6
c - 28	6.36	525856	500317	5
c - 30	6.70	515866	500317	3
c - 32	7.01	495892	500317	-1
c - 34	7.30	493165	500317	-1
c - 36	7.58	492469	500317	-2

* One compound allowed %D <= 50%

Samples

17G0887-01
 17G0887-03
 17G0887-05
 17G0888-01
 17G0888-02
 17G0888-03
 17G0888-06
 17G0888-07
 17G0888-08
 17G0944-05
 17G0944-06
 17G0944-07
 17G0869-14
 17G0869-15
 17G0987-01

D:\HPCHEM\1\DATA\A072717\A0727112.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 7/28/17
 Data File Name A0727112.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.08	436638	495838	-12
c - 10	1.43	438494	495838	-12
c - 12	2.17	471778	495838	-5
c - 14	2.84	490965	495838	-1
c - 16	3.44	507206	495838	2
c - 18	4.02	506921	495838	2
o-Terphenyl	4.31	567249	495838	
c - 20	4.64	519308	495838	5
c - 22	5.16	529771	495838	7
c - 24	5.60	497287	495838	0
c - 26	6.00	527041	495838	6
c - 28	6.36	523537	495838	6
c - 30	6.70	515875	495838	4
c - 32	7.01	495735	495838	0
c - 34	7.30	490440	495838	-1
c - 36	7.58	486576	495838	-2

* One compound allowed %D <= 50%

Samples

17G0888-04
 17G0888-05
 17G0869-16
 17G0872-05@20X
 17G0872-06@500X
 17G0872-07@10X
 17G0872-07@10X
 17G0872-14@100X
 17G0872-20@20X
 17G0872-23@20X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0869

Laboratory Sample ID(s):

Sample Date(s):

17G0869-01 thru 17G0869-16

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6020A-B, SW-846 7470A, SW-846 7471B, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 08/08/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 8, 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: 17G0911

Enclosed are results of analyses for samples received by the laboratory on July 21, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0911

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-AOC5-SO-6-1	17G0911-01	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-9-1	17G0911-02	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-8-1	17G0911-03	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-8-2	17G0911-04	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-3-1	17G0911-05	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-3-2	17G0911-06	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC5-SO-5-1	17G0911-07	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-4-1	17G0911-08	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-2-1	17G0911-09	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-7-1	17G0911-10	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-1-1	17G0911-11	Soil		SM 2540G SW-846 8082A	
WS-AOC5-SO-1-2	17G0911-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-1-1	17G0911-13	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-1-2	17G0911-14	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-2-1	17G0911-15	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	

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

REPORT DATE: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0911

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-2-2	17G0911-16	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-3-1	17G0911-17	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-3-2	17G0911-18	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-4-1	17G0911-19	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-4-2	17G0911-20	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	

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

17G0911-16[WS-AOC12E-SO-2-2]

SW-846 8270D

Qualifications:

E

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

Analyte & Samples(s) Qualified:

Fluoranthene

17G0911-13[WS-AOC12E-SO-1-1]

Pyrene

17G0911-13[WS-AOC12E-SO-1-1]

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G0911-15[WS-AOC12E-SO-2-1], 17G0911-16[WS-AOC12E-SO-2-2], 17G0911-17[WS-AOC12E-SO-3-1]

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.



Tod E. Kopycinski
Laboratory Director

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-6-1

Sampled: 7/21/2017 09:00

Sample ID: 17G0911-01

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					8/7/17 14:23	
Decachlorobiphenyl [2]		105	30-150					8/7/17 14:23	
Tetrachloro-m-xylene [1]		96.3	30-150					8/7/17 14:23	
Tetrachloro-m-xylene [2]		100	30-150					8/7/17 14:23	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-6-1

Sampled: 7/21/2017 09:00

Sample ID: 17G0911-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.7		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-9-1

Sampled: 7/21/2017 09:03

Sample ID: 17G0911-02

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:35	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					8/7/17 14:35	
Decachlorobiphenyl [2]		111	30-150					8/7/17 14:35	
Tetrachloro-m-xylene [1]		101	30-150					8/7/17 14:35	
Tetrachloro-m-xylene [2]		105	30-150					8/7/17 14:35	

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-9-1

Sampled: 7/21/2017 09:03

Sample ID: 17G0911-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	99.2		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-8-1

Sampled: 7/21/2017 09:19

Sample ID: 17G0911-03

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 14:48	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		107	30-150					8/7/17 14:48	
Decachlorobiphenyl [2]		110	30-150					8/7/17 14:48	
Tetrachloro-m-xylene [1]		100	30-150					8/7/17 14:48	
Tetrachloro-m-xylene [2]		104	30-150					8/7/17 14:48	

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: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-8-1

Sampled: 7/21/2017 09:19

Sample ID: 17G0911-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.4		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-8-2

Sampled: 7/21/2017 09:21

Sample ID: 17G0911-04

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	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:00	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.1	30-150					8/7/17 15:00	
Decachlorobiphenyl [2]		104	30-150					8/7/17 15:00	
Tetrachloro-m-xylene [1]		89.6	30-150					8/7/17 15:00	
Tetrachloro-m-xylene [2]		91.9	30-150					8/7/17 15:00	

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-8-2

Sampled: 7/21/2017 09:21

Sample ID: 17G0911-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.9		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-1

Sampled: 7/21/2017 09:22

Sample ID: 17G0911-05

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	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1260 [1]	0.13	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:13	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	99.3		30-150				8/7/17 15:13		
Decachlorobiphenyl [2]	102		30-150				8/7/17 15:13		
Tetrachloro-m-xylene [1]	95.8		30-150				8/7/17 15:13		
Tetrachloro-m-xylene [2]	100		30-150				8/7/17 15:13		

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: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-1

Sampled: 7/21/2017 09:22

Sample ID: 17G0911-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.2		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-2

Sampled: 7/21/2017 09:23

Sample ID: 17G0911-06

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	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Acenaphthylene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Anthracene	0.30	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Benzo(a)anthracene	0.91	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Benzo(a)pyrene	0.90	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Benzo(b)fluoranthene	1.0	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Benzo(g,h,i)perylene	0.56	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Benzo(k)fluoranthene	0.37	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Chrysene	0.84	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Dibenz(a,h)anthracene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Fluoranthene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Fluorene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Indeno(1,2,3-cd)pyrene	0.55	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
2-Methylnaphthalene	ND	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Naphthalene	0.30	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Phenanthrene	0.73	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Pyrene	1.9	0.17	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:22	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		74.0	30-130					8/3/17 20:22	
2-Fluorobiphenyl		69.6	30-130					8/3/17 20:22	
p-Terphenyl-d14		71.2	30-130					8/3/17 20:22	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-2

Sampled: 7/21/2017 09:23

Sample ID: 17G0911-06

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	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:26	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					8/7/17 15:26	
Decachlorobiphenyl [2]		106	30-150					8/7/17 15:26	
Tetrachloro-m-xylene [1]		97.3	30-150					8/7/17 15:26	
Tetrachloro-m-xylene [2]		101	30-150					8/7/17 15:26	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-2

Sampled: 7/21/2017 09:23

Sample ID: 17G0911-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	110	51	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 12:12	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		78.9	50-150					8/3/17 12:12	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-3-2

Sampled: 7/21/2017 09:23

Sample ID: 17G0911-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.4		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-5-1

Sampled: 7/21/2017 09:25

Sample ID: 17G0911-07

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	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:38	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/7/17 15:38	
Decachlorobiphenyl [2]		104	30-150					8/7/17 15:38	
Tetrachloro-m-xylene [1]		97.5	30-150					8/7/17 15:38	
Tetrachloro-m-xylene [2]		102	30-150					8/7/17 15:38	

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-5-1

Sampled: 7/21/2017 09:25

Sample ID: 17G0911-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	62.7		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-4-1

Sampled: 7/21/2017 09:37

Sample ID: 17G0911-08

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	7/28/17	8/7/17 15:51	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 15:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.3	30-150					8/7/17 15:51	
Decachlorobiphenyl [2]		100	30-150					8/7/17 15:51	
Tetrachloro-m-xylene [1]		94.2	30-150					8/7/17 15:51	
Tetrachloro-m-xylene [2]		98.5	30-150					8/7/17 15:51	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-4-1

Sampled: 7/21/2017 09:37

Sample ID: 17G0911-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.3		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-2-1

Sampled: 7/21/2017 09:32

Sample ID: 17G0911-09

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:03	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		73.3	30-150					8/7/17 16:03	
Decachlorobiphenyl [2]		74.9	30-150					8/7/17 16:03	
Tetrachloro-m-xylene [1]		72.3	30-150					8/7/17 16:03	
Tetrachloro-m-xylene [2]		75.2	30-150					8/7/17 16:03	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-2-1

Sampled: 7/21/2017 09:32

Sample ID: 17G0911-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.1		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-7-1

Sampled: 7/21/2017 09:38

Sample ID: 17G0911-10

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:16	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					8/7/17 16:16	
Decachlorobiphenyl [2]		108	30-150					8/7/17 16:16	
Tetrachloro-m-xylene [1]		105	30-150					8/7/17 16:16	
Tetrachloro-m-xylene [2]		110	30-150					8/7/17 16:16	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-7-1

Sampled: 7/21/2017 09:38

Sample ID: 17G0911-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	98.8		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-1-1

Sampled: 7/21/2017 10:04

Sample ID: 17G0911-11

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	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 16:57	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/7/17 16:57	
Decachlorobiphenyl [2]		103	30-150					8/7/17 16:57	
Tetrachloro-m-xylene [1]		98.3	30-150					8/7/17 16:57	
Tetrachloro-m-xylene [2]		102	30-150					8/7/17 16:57	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-1-1

Sampled: 7/21/2017 10:04

Sample ID: 17G0911-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.0		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-1-2

Sampled: 7/21/2017 10:06

Sample ID: 17G0911-12

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	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:15	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.8	30-150					8/7/17 17:15	
Decachlorobiphenyl [2]		111	30-150					8/7/17 17:15	
Tetrachloro-m-xylene [1]		98.9	30-150					8/7/17 17:15	
Tetrachloro-m-xylene [2]		99.1	30-150					8/7/17 17:15	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC5-SO-1-2

Sampled: 7/21/2017 10:06

Sample ID: 17G0911-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	54.8		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-1

Sampled: 7/21/2017 11:08

Sample ID: 17G0911-13

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	7/28/17	8/3/17 21:10	BGL
Acenaphthene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Acenaphthylene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Anthracene	0.58	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Anthracene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Benzo(a)anthracene	2.5	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Benzo(a)anthracene	2.1	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Benzo(a)pyrene	2.4	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Benzo(a)pyrene	1.9	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Benzo(b)fluoranthene	3.1	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Benzo(b)fluoranthene	2.4	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Benzo(g,h,i)perylene	2.0	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Benzo(g,h,i)perylene	1.2	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Benzo(k)fluoranthene	1.1	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Benzo(k)fluoranthene	0.95	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Chrysene	2.4	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Chrysene	2.0	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Dibenz(a,h)anthracene	0.20	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Dibenz(a,h)anthracene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Fluoranthene	5.1	0.18	mg/Kg dry	1	E	SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Fluoranthene	3.6	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Fluorene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Indeno(1,2,3-cd)pyrene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Indeno(1,2,3-cd)pyrene	1.2	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
2-Methylnaphthalene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Naphthalene	ND	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Phenanthrene	2.8	0.18	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Phenanthrene	2.2	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Pyrene	4.9	0.18	mg/Kg dry	1	E	SW-846 8270D	7/28/17	8/3/17 21:10	BGL
Pyrene	3.4	0.73	mg/Kg dry	4		SW-846 8270D	7/28/17	8/4/17 12:42	BGL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Nitrobenzene-d5	70.1	30-130	8/3/17 21:10						
Nitrobenzene-d5	56.6	30-130	8/4/17 12:42						
2-Fluorobiphenyl	75.6	30-130	8/3/17 21:10						
2-Fluorobiphenyl	58.8	30-130	8/4/17 12:42						
p-Terphenyl-d14	74.3	30-130	8/3/17 21:10						
p-Terphenyl-d14	61.8	30-130	8/4/17 12:42						

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-1

Sampled: 7/21/2017 11:08

Sample ID: 17G0911-13

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	7/28/17	8/7/17 17:32	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:32	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/7/17 17:32	
Decachlorobiphenyl [2]		104	30-150					8/7/17 17:32	
Tetrachloro-m-xylene [1]		101	30-150					8/7/17 17:32	
Tetrachloro-m-xylene [2]		105	30-150					8/7/17 17:32	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-1

Sampled: 7/21/2017 11:08

Sample ID: 17G0911-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	54	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 2:16	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		96.2	50-150					8/3/17 2:16	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-1

Sampled: 7/21/2017 11:08

Sample ID: 17G0911-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-2

Sampled: 7/21/2017 11:10

Sample ID: 17G0911-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Benzo(a)anthracene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Benzo(a)pyrene	0.27	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Benzo(b)fluoranthene	0.32	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Chrysene	0.24	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Fluoranthene	0.45	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Phenanthrene	0.29	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Pyrene	0.54	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 21:33	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		71.7	30-130					8/3/17 21:33	
2-Fluorobiphenyl		77.7	30-130					8/3/17 21:33	
p-Terphenyl-d14		89.3	30-130					8/3/17 21:33	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-2

Sampled: 7/21/2017 11:10

Sample ID: 17G0911-14

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	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 17:50	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		106	30-150					8/7/17 17:50	
Decachlorobiphenyl [2]		109	30-150					8/7/17 17:50	
Tetrachloro-m-xylene [1]		107	30-150					8/7/17 17:50	
Tetrachloro-m-xylene [2]		111	30-150					8/7/17 17:50	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-2

Sampled: 7/21/2017 11:10

Sample ID: 17G0911-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	26	12	mg/Kg dry	1		CTDEP ETPH	7/28/17	8/2/17 17:35	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		83.4	50-150					8/2/17 17:35	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-1-2

Sampled: 7/21/2017 11:10

Sample ID: 17G0911-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-1

Sampled: 7/21/2017 11:30

Sample ID: 17G0911-15

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	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Acenaphthylene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Benzo(a)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Benzo(a)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Benzo(b)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Benzo(g,h,i)perylene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Benzo(k)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Chrysene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Fluorene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
2-Methylnaphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Naphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Phenanthrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 21:57	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		57.4	30-130					8/3/17 21:57	
2-Fluorobiphenyl		57.6	30-130					8/3/17 21:57	
p-Terphenyl-d14		64.8	30-130					8/3/17 21:57	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-1

Sampled: 7/21/2017 11:30

Sample ID: 17G0911-15

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	7/28/17	8/7/17 18:08	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:08	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.0	30-150					8/7/17 18:08	
Decachlorobiphenyl [2]		88.7	30-150					8/7/17 18:08	
Tetrachloro-m-xylene [1]		85.3	30-150					8/7/17 18:08	
Tetrachloro-m-xylene [2]		88.7	30-150					8/7/17 18:08	

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: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-1

Sampled: 7/21/2017 11:30

Sample ID: 17G0911-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	120	54	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 1:40	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		86.5	50-150					8/3/17 1:40	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-1

Sampled: 7/21/2017 11:30

Sample ID: 17G0911-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-2

Sampled: 7/21/2017 11:32

Sample ID: 17G0911-16

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	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Acenaphthylene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Anthracene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Benzo(a)anthracene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Benzo(a)pyrene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Benzo(b)fluoranthene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Benzo(g,h,i)perylene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Benzo(k)fluoranthene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Chrysene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Dibenz(a,h)anthracene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Fluoranthene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Fluorene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Indeno(1,2,3-cd)pyrene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
2-Methylnaphthalene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Naphthalene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Phenanthrene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Pyrene	ND	0.77	mg/Kg dry	4		SW-846 8270D	7/28/17	8/3/17 22:20	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		42.6	30-130					8/3/17 22:20	
2-Fluorobiphenyl		38.0	30-130					8/3/17 22:20	
p-Terphenyl-d14		44.5	30-130					8/3/17 22:20	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-2

Sampled: 7/21/2017 11:32

Sample ID: 17G0911-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:25	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.7	30-150					8/7/17 18:25	
Decachlorobiphenyl [2]		88.2	30-150					8/7/17 18:25	
Tetrachloro-m-xylene [1]		98.2	30-150					8/7/17 18:25	
Tetrachloro-m-xylene [2]		103	30-150					8/7/17 18:25	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-2

Sampled: 7/21/2017 11:32

Sample ID: 17G0911-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2700	450	mg/Kg dry	20		CTDEP ETPH	7/28/17	8/3/17 2:16	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			8/3/17 2:16	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-2-2

Sampled: 7/21/2017 11:32

Sample ID: 17G0911-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-1

Sampled: 7/21/2017 11:54

Sample ID: 17G0911-17

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	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Acenaphthylene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Benzo(a)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Benzo(a)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Benzo(b)fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Benzo(g,h,i)perylene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Benzo(k)fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Chrysene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Dibenz(a,h)anthracene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Fluoranthene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Fluorene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Indeno(1,2,3-cd)pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
2-Methylnaphthalene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Naphthalene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Phenanthrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Pyrene	ND	0.36	mg/Kg dry	2		SW-846 8270D	7/28/17	8/3/17 22:43	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		61.6	30-130					8/3/17 22:43	
2-Fluorobiphenyl		56.4	30-130					8/3/17 22:43	
p-Terphenyl-d14		65.1	30-130					8/3/17 22:43	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-1

Sampled: 7/21/2017 11:54

Sample ID: 17G0911-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 18:43	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.5	30-150					8/7/17 18:43	
Decachlorobiphenyl [2]		93.9	30-150					8/7/17 18:43	
Tetrachloro-m-xylene [1]		104	30-150					8/7/17 18:43	
Tetrachloro-m-xylene [2]		103	30-150					8/7/17 18:43	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-1

Sampled: 7/21/2017 11:54

Sample ID: 17G0911-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	380	53	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 2:51	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		103	50-150					8/3/17 2:51	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-1

Sampled: 7/21/2017 11:54

Sample ID: 17G0911-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-2

Sampled: 7/21/2017 11:56

Sample ID: 17G0911-18

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	7/28/17	8/3/17 23:07	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Anthracene	0.28	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Benzo(a)anthracene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Benzo(a)pyrene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Benzo(b)fluoranthene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Benzo(g,h,i)perylene	0.84	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Benzo(k)fluoranthene	0.44	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Chrysene	1.0	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Dibenz(a,h)anthracene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Fluoranthene	2.2	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Indeno(1,2,3-cd)pyrene	0.72	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Phenanthrene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Pyrene	2.3	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:07	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		80.2	30-130					8/3/17 23:07	
2-Fluorobiphenyl		79.8	30-130					8/3/17 23:07	
p-Terphenyl-d14		86.8	30-130					8/3/17 23:07	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-2

Sampled: 7/21/2017 11:56

Sample ID: 17G0911-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:01	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.7	30-150					8/7/17 19:01	
Decachlorobiphenyl [2]		94.2	30-150					8/7/17 19:01	
Tetrachloro-m-xylene [1]		99.8	30-150					8/7/17 19:01	
Tetrachloro-m-xylene [2]		104	30-150					8/7/17 19:01	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-2

Sampled: 7/21/2017 11:56

Sample ID: 17G0911-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	170	56	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 8:55	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		97.7	50-150					8/3/17 8:55	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-3-2

Sampled: 7/21/2017 11:56

Sample ID: 17G0911-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:14	MRL

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

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-1

Sampled: 7/21/2017 12:09

Sample ID: 17G0911-19

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	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Benzo(a)anthracene	0.70	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Benzo(a)pyrene	0.71	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Benzo(b)fluoranthene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Benzo(g,h,i)perylene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Benzo(k)fluoranthene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Chrysene	0.81	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Fluoranthene	1.1	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Indeno(1,2,3-cd)pyrene	0.51	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Phenanthrene	0.62	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Pyrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 19:58	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		55.8	30-130					8/3/17 19:58	
2-Fluorobiphenyl		57.9	30-130					8/3/17 19:58	
p-Terphenyl-d14		58.2	30-130					8/3/17 19:58	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-1

Sampled: 7/21/2017 12:09

Sample ID: 17G0911-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:18	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.0	30-150					8/7/17 19:18	
Decachlorobiphenyl [2]		95.2	30-150					8/7/17 19:18	
Tetrachloro-m-xylene [1]		98.0	30-150					8/7/17 19:18	
Tetrachloro-m-xylene [2]		101	30-150					8/7/17 19:18	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-1

Sampled: 7/21/2017 12:09

Sample ID: 17G0911-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	55	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 11:36	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl		104		50-150				8/3/17 11:36	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-1

Sampled: 7/21/2017 12:09

Sample ID: 17G0911-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.6		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-2

Sampled: 7/21/2017 12:10

Sample ID: 17G0911-20

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	7/28/17	8/3/17 23:30	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Benzo(a)anthracene	0.45	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Benzo(a)pyrene	0.35	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Benzo(b)fluoranthene	0.48	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Benzo(g,h,i)perylene	0.36	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Chrysene	0.50	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Fluoranthene	0.91	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Indeno(1,2,3-cd)pyrene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Phenanthrene	0.78	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Pyrene	0.95	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 23:30	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		63.4	30-130					8/3/17 23:30	
2-Fluorobiphenyl		60.8	30-130					8/3/17 23:30	
p-Terphenyl-d14		73.4	30-130					8/3/17 23:30	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-2

Sampled: 7/21/2017 12:10

Sample ID: 17G0911-20

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	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/28/17	8/7/17 19:36	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		85.1	30-150					8/7/17 19:36	
Decachlorobiphenyl [2]		92.3	30-150					8/7/17 19:36	
Tetrachloro-m-xylene [1]		102	30-150					8/7/17 19:36	
Tetrachloro-m-xylene [2]		106	30-150					8/7/17 19:36	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-2

Sampled: 7/21/2017 12:10

Sample ID: 17G0911-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	360	63	mg/Kg dry	5		CTDEP ETPH	7/28/17	8/3/17 1:58	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		88.5	50-150					8/3/17 1:58	

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

Sample Description:

Work Order: 17G0911

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-4-2

Sampled: 7/21/2017 12:10

Sample ID: 17G0911-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.6		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0911-06 [WS-AOC5-SO-3-2]	B182788	30.0	1.00	07/28/17
17G0911-13 [WS-AOC12E-SO-1-1]	B182788	30.0	1.00	07/28/17
17G0911-14 [WS-AOC12E-SO-1-2]	B182788	30.0	1.00	07/28/17
17G0911-15 [WS-AOC12E-SO-2-1]	B182788	30.0	1.00	07/28/17
17G0911-16 [WS-AOC12E-SO-2-2]	B182788	30.0	2.00	07/28/17
17G0911-17 [WS-AOC12E-SO-3-1]	B182788	30.0	1.00	07/28/17
17G0911-18 [WS-AOC12E-SO-3-2]	B182788	30.0	1.00	07/28/17
17G0911-19 [WS-AOC12E-SO-4-1]	B182788	30.0	1.00	07/28/17
17G0911-20 [WS-AOC12E-SO-4-2]	B182788	30.0	1.00	07/28/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0911-01 [WS-AOC5-SO-6-1]	B182831	07/28/17
17G0911-02 [WS-AOC5-SO-9-1]	B182831	07/28/17
17G0911-03 [WS-AOC5-SO-8-1]	B182831	07/28/17
17G0911-04 [WS-AOC5-SO-8-2]	B182831	07/28/17
17G0911-05 [WS-AOC5-SO-3-1]	B182831	07/28/17
17G0911-06 [WS-AOC5-SO-3-2]	B182831	07/28/17
17G0911-07 [WS-AOC5-SO-5-1]	B182831	07/28/17
17G0911-08 [WS-AOC5-SO-4-1]	B182831	07/28/17
17G0911-09 [WS-AOC5-SO-2-1]	B182831	07/28/17
17G0911-10 [WS-AOC5-SO-7-1]	B182831	07/28/17
17G0911-11 [WS-AOC5-SO-1-1]	B182831	07/28/17
17G0911-12 [WS-AOC5-SO-1-2]	B182831	07/28/17
17G0911-13 [WS-AOC12E-SO-1-1]	B182831	07/28/17
17G0911-14 [WS-AOC12E-SO-1-2]	B182831	07/28/17
17G0911-15 [WS-AOC12E-SO-2-1]	B182831	07/28/17
17G0911-16 [WS-AOC12E-SO-2-2]	B182831	07/28/17
17G0911-17 [WS-AOC12E-SO-3-1]	B182831	07/28/17
17G0911-18 [WS-AOC12E-SO-3-2]	B182831	07/28/17
17G0911-19 [WS-AOC12E-SO-4-1]	B182831	07/28/17
17G0911-20 [WS-AOC12E-SO-4-2]	B182831	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0911-01 [WS-AOC5-SO-6-1]	B182818	10.0	10.0	07/28/17
17G0911-02 [WS-AOC5-SO-9-1]	B182818	10.0	10.0	07/28/17
17G0911-03 [WS-AOC5-SO-8-1]	B182818	10.0	10.0	07/28/17
17G0911-04 [WS-AOC5-SO-8-2]	B182818	10.0	10.0	07/28/17
17G0911-05 [WS-AOC5-SO-3-1]	B182818	10.0	10.0	07/28/17
17G0911-06 [WS-AOC5-SO-3-2]	B182818	10.0	10.0	07/28/17
17G0911-07 [WS-AOC5-SO-5-1]	B182818	10.0	10.0	07/28/17
17G0911-08 [WS-AOC5-SO-4-1]	B182818	10.0	10.0	07/28/17
17G0911-09 [WS-AOC5-SO-2-1]	B182818	10.0	10.0	07/28/17
17G0911-10 [WS-AOC5-SO-7-1]	B182818	10.0	10.0	07/28/17
17G0911-11 [WS-AOC5-SO-1-1]	B182818	10.0	10.0	07/28/17
17G0911-12 [WS-AOC5-SO-1-2]	B182818	10.0	10.0	07/28/17
17G0911-13 [WS-AOC12E-SO-1-1]	B182818	10.0	10.0	07/28/17
17G0911-14 [WS-AOC12E-SO-1-2]	B182818	10.0	10.0	07/28/17
17G0911-15 [WS-AOC12E-SO-2-1]	B182818	10.0	10.0	07/28/17
17G0911-16 [WS-AOC12E-SO-2-2]	B182818	10.0	10.0	07/28/17

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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
17G0911-17 [WS-AOC12E-SO-3-1]	B182818	10.0	10.0	07/28/17
17G0911-18 [WS-AOC12E-SO-3-2]	B182818	10.0	10.0	07/28/17
17G0911-19 [WS-AOC12E-SO-4-1]	B182818	10.0	10.0	07/28/17
17G0911-20 [WS-AOC12E-SO-4-2]	B182818	10.0	10.0	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0911-06 [WS-AOC5-SO-3-2]	B182789	30.0	1.00	07/28/17
17G0911-13 [WS-AOC12E-SO-1-1]	B182789	30.0	1.00	07/28/17
17G0911-13RE1 [WS-AOC12E-SO-1-1]	B182789	30.0	1.00	07/28/17
17G0911-14 [WS-AOC12E-SO-1-2]	B182789	30.0	1.00	07/28/17
17G0911-15 [WS-AOC12E-SO-2-1]	B182789	30.0	1.00	07/28/17
17G0911-16 [WS-AOC12E-SO-2-2]	B182789	30.0	1.00	07/28/17
17G0911-17 [WS-AOC12E-SO-3-1]	B182789	30.0	1.00	07/28/17
17G0911-18 [WS-AOC12E-SO-3-2]	B182789	30.0	1.00	07/28/17
17G0911-19 [WS-AOC12E-SO-4-1]	B182789	30.0	1.00	07/28/17
17G0911-20 [WS-AOC12E-SO-4-2]	B182789	30.0	1.00	07/28/17

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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 B182789 - SW-846 3546										
Blank (B182789-BLK1)										
Prepared: 07/28/17 Analyzed: 08/01/17										
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	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.1	30-130			
Surrogate: p-Terphenyl-d14	3.22		mg/Kg wet	3.33		96.5	30-130			
LCS (B182789-BS1)										
Prepared: 07/28/17 Analyzed: 08/01/17										
Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140			
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Naphthalene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Surrogate: Nitrobenzene-d5	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/Kg wet	3.33		78.6	30-130			
Surrogate: p-Terphenyl-d14	3.16		mg/Kg wet	3.33		94.9	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 B182789 - SW-846 3546										
LCS Dup (B182789-BSD1)										
					Prepared: 07/28/17 Analyzed: 08/01/17					
Acenaphthene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140	16.1	30	
Acenaphthylene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140	14.7	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	17.2	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	16.1	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	17.9	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	19.7	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	19.5	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	19.4	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	16.9	30	
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	18.2	30	
Fluoranthene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	17.2	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	17.0	30	
Indeno(1,2,3-cd)pyrene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140	27.1	30	
2-Methylnaphthalene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	10.4	30	
Naphthalene	0.895	0.17	mg/Kg wet	1.67		53.7	40-140	11.0	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	17.2	30	
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	16.6	30	
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		66.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	30-130			
Surrogate: p-Terphenyl-d14	2.67		mg/Kg wet	3.33		80.2	30-130			
Matrix Spike (B182789-MS1)										
			Source: 17G0911-19		Prepared: 07/28/17 Analyzed: 08/03/17					
Acenaphthene	1.18	0.19	mg/Kg dry	1.82	ND	65.0	40-140			
Acenaphthylene	1.29	0.19	mg/Kg dry	1.82	0.0953	65.5	40-140			
Anthracene	1.28	0.19	mg/Kg dry	1.82	0.116	64.2	40-140			
Benzo(a)anthracene	1.97	0.19	mg/Kg dry	1.82	0.696	69.9	40-140			
Benzo(a)pyrene	2.01	0.19	mg/Kg dry	1.82	0.710	71.5	40-140			
Benzo(b)fluoranthene	2.18	0.19	mg/Kg dry	1.82	0.969	66.4	40-140			
Benzo(g,h,i)perylene	2.35	0.19	mg/Kg dry	1.82	0.571	97.6	40-140			
Benzo(k)fluoranthene	1.55	0.19	mg/Kg dry	1.82	0.353	65.6	40-140			
Chrysene	2.08	0.19	mg/Kg dry	1.82	0.814	69.4	40-140			
Dibenz(a,h)anthracene	1.59	0.19	mg/Kg dry	1.82	0.148	79.1	40-140			
Fluoranthene	2.49	0.19	mg/Kg dry	1.82	1.10	76.3	40-140			
Fluorene	1.19	0.19	mg/Kg dry	1.82	ND	65.2	40-140			
Indeno(1,2,3-cd)pyrene	1.93	0.19	mg/Kg dry	1.82	0.508	78.1	40-140			
2-Methylnaphthalene	1.23	0.19	mg/Kg dry	1.82	0.102	61.7	40-140			
Naphthalene	1.18	0.19	mg/Kg dry	1.82	0.123	58.3	40-140			
Phenanthrene	1.91	0.19	mg/Kg dry	1.82	0.618	71.1	40-140			
Pyrene	2.98	0.19	mg/Kg dry	1.82	1.24	95.4	40-140			
Surrogate: Nitrobenzene-d5	2.54		mg/Kg dry	3.64		69.8	30-130			
Surrogate: 2-Fluorobiphenyl	2.80		mg/Kg dry	3.64		77.1	30-130			
Surrogate: p-Terphenyl-d14	3.05		mg/Kg dry	3.64		83.8	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 B182789 - SW-846 3546										
Matrix Spike Dup (B182789-MSD1)	Source: 17G0911-19			Prepared: 07/28/17 Analyzed: 08/04/17						
Acenaphthene	1.03	0.19	mg/Kg dry	1.82	ND	56.7	40-140	13.7	30	
Acenaphthylene	1.15	0.19	mg/Kg dry	1.82	0.0953	58.1	40-140	11.0	30	
Anthracene	1.20	0.19	mg/Kg dry	1.82	0.116	59.3	40-140	7.22	30	
Benzo(a)anthracene	2.15	0.19	mg/Kg dry	1.82	0.696	80.1	40-140	9.04	30	
Benzo(a)pyrene	2.11	0.19	mg/Kg dry	1.82	0.710	77.1	40-140	4.93	30	
Benzo(b)fluoranthene	2.38	0.19	mg/Kg dry	1.82	0.969	77.6	40-140	8.88	30	
Benzo(g,h,i)perylene	2.27	0.19	mg/Kg dry	1.82	0.571	93.4	40-140	3.28	30	
Benzo(k)fluoranthene	1.49	0.19	mg/Kg dry	1.82	0.353	62.7	40-140	3.57	30	
Chrysene	2.19	0.19	mg/Kg dry	1.82	0.814	75.6	40-140	5.31	30	
Dibenz(a,h)anthracene	1.41	0.19	mg/Kg dry	1.82	0.148	69.3	40-140	12.0	30	
Fluoranthene	3.16	0.19	mg/Kg dry	1.82	1.10	113	40-140	23.6	30	
Fluorene	1.05	0.19	mg/Kg dry	1.82	ND	57.8	40-140	12.0	30	
Indeno(1,2,3-cd)pyrene	2.13	0.19	mg/Kg dry	1.82	0.508	88.9	40-140	9.75	30	
2-Methylnaphthalene	1.11	0.19	mg/Kg dry	1.82	0.102	55.4	40-140	9.95	30	
Naphthalene	1.10	0.19	mg/Kg dry	1.82	0.123	53.7	40-140	7.33	30	
Phenanthrene	2.12	0.19	mg/Kg dry	1.82	0.618	82.4	40-140	10.2	30	
Pyrene	3.64	0.19	mg/Kg dry	1.82	1.24	132	40-140	20.0	30	
Surrogate: Nitrobenzene-d5	2.47		mg/Kg dry	3.64		67.9	30-130			
Surrogate: 2-Fluorobiphenyl	2.42		mg/Kg dry	3.64		66.4	30-130			
Surrogate: p-Terphenyl-d14	2.54		mg/Kg dry	3.64		69.7	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 B182818 - SW-846 3540C										
Blank (B182818-BLK1)										
Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.218		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.229		mg/Kg wet	0.200		114	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.214		mg/Kg wet	0.200		107	30-150			
LCS (B182818-BS1)										
Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1	40-140			
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		104	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.1	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5	40-140			
Surrogate: Decachlorobiphenyl	0.221		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.231		mg/Kg wet	0.200		116	30-150			
Surrogate: Tetrachloro-m-xylene	0.200		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.214		mg/Kg wet	0.200		107	30-150			
LCS Dup (B182818-BSD1)										
Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.0	40-140	0.0921	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		102	40-140	1.67	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		87.2	40-140	2.18	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.2	40-140	2.54	30	
Surrogate: Decachlorobiphenyl	0.209		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.219		mg/Kg wet	0.200		109	30-150			
Surrogate: Tetrachloro-m-xylene	0.198		mg/Kg wet	0.200		98.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		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 B182818 - SW-846 3540C										
Matrix Spike (B182818-MS1) Source: 17G0911-05 Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.046	0.020	mg/Kg dry	0.204	ND	22.4	* 40-140			
Aroclor-1016 [2C]	0.048	0.020	mg/Kg dry	0.204	ND	23.3	* 40-140			
Aroclor-1254	ND	0.020	mg/Kg dry		ND		40-140			
Aroclor-1254 [2C]	ND	0.020	mg/Kg dry		ND		40-140			
Aroclor-1260	0.093	0.020	mg/Kg dry	0.204	0.13	-17.2	* 40-140			
Aroclor-1260 [2C]	0.097	0.020	mg/Kg dry	0.204	0.14	-20.2	* 40-140			
Surrogate: Decachlorobiphenyl	0.0350		mg/Kg dry	0.204		17.2	* 30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0378		mg/Kg dry	0.204		18.5	* 30-150			
Surrogate: Tetrachloro-m-xylene	0.0392		mg/Kg dry	0.204		19.3	* 30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0411		mg/Kg dry	0.204		20.2	* 30-150			
Matrix Spike (B182818-MS2) Source: 17G0911-19 Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.047	0.022	mg/Kg dry	0.218	ND	21.7	* 40-140			
Aroclor-1016 [2C]	0.051	0.022	mg/Kg dry	0.218	ND	23.6	* 40-140			
Aroclor-1254	ND	0.022	mg/Kg dry		ND		40-140			
Aroclor-1254 [2C]	ND	0.022	mg/Kg dry		ND		40-140			
Aroclor-1260	0.051	0.022	mg/Kg dry	0.218	ND	23.6	* 40-140			
Aroclor-1260 [2C]	0.057	0.022	mg/Kg dry	0.218	ND	26.0	* 40-140			
Surrogate: Decachlorobiphenyl	0.0391		mg/Kg dry	0.218		17.9	* 30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0433		mg/Kg dry	0.218		19.8	* 30-150			
Surrogate: Tetrachloro-m-xylene	0.0423		mg/Kg dry	0.218		19.4	* 30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0441		mg/Kg dry	0.218		20.2	* 30-150			
Matrix Spike Dup (B182818-MSD1) Source: 17G0911-05 Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.037	0.020	mg/Kg dry	0.204	ND	18.1	* 40-140		50	
Aroclor-1016 [2C]	0.039	0.020	mg/Kg dry	0.204	ND	19.0	* 40-140	20.2	50	
Aroclor-1254	ND	0.020	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1254 [2C]	ND	0.020	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1260	0.048	0.020	mg/Kg dry	0.204	0.13	-39.1	* 40-140	63.1	* 50	
Aroclor-1260 [2C]	0.051	0.020	mg/Kg dry	0.204	0.14	-42.7	* 40-140	62.2	* 50	
Surrogate: Decachlorobiphenyl	0.0292		mg/Kg dry	0.204		14.3	* 30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0307		mg/Kg dry	0.204		15.1	* 30-150			
Surrogate: Tetrachloro-m-xylene	0.0342		mg/Kg dry	0.204		16.8	* 30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0363		mg/Kg dry	0.204		17.8	* 30-150			
Matrix Spike Dup (B182818-MSD2) Source: 17G0911-19 Prepared: 07/28/17 Analyzed: 08/07/17										
Aroclor-1016	0.049	0.022	mg/Kg dry	0.218	ND	22.3	* 40-140		50	
Aroclor-1016 [2C]	0.053	0.022	mg/Kg dry	0.218	ND	24.4	* 40-140	3.47	50	
Aroclor-1254	ND	0.022	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1254 [2C]	ND	0.022	mg/Kg dry		ND		40-140	NC	50	
Aroclor-1260	0.051	0.022	mg/Kg dry	0.218	ND	23.4	* 40-140		50	
Aroclor-1260 [2C]	0.056	0.022	mg/Kg dry	0.218	ND	25.6	* 40-140		50	
Surrogate: Decachlorobiphenyl	0.0393		mg/Kg dry	0.218		18.0	* 30-150			
Surrogate: Decachlorobiphenyl [2C]	0.0436		mg/Kg dry	0.218		20.0	* 30-150			
Surrogate: Tetrachloro-m-xylene	0.0436		mg/Kg dry	0.218		20.0	* 30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.0451		mg/Kg dry	0.218		20.7	* 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 B182788 - SW-846 3546										
Blank (B182788-BLK1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.7	50-150			
LCS (B182788-BS1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	28.8	10	mg/Kg wet	33.3		86.4	60-120			
Surrogate: o-Terphenyl	2.72		mg/Kg wet	3.33		81.7	50-150			
LCS Dup (B182788-BSD1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	27.8	10	mg/Kg wet	33.3		83.4	60-120	3.51	30	
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.1	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 B182831 - % Solids										
Duplicate (B182831-DUP4)	Source: 17G0911-19			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	92.1		% Wt		91.6			0.544	20	
Duplicate (B182831-DUP5)	Source: 17G0911-05			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	99.0		% Wt		98.2			0.811	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC5-SO-3-1

SW-846 8082A

Lab Sample ID: 17G0911-05 Date(s) Analyzed: 08/07/2017 08/07/2017

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	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.14	7.4

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS

Lab Sample ID: B182818-BS1 Date(s) Analyzed: 08/07/2017 08/07/2017

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	0.21	10.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B182818-BSD1 Date(s) Analyzed: 08/07/2017 08/07/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike

SW-846 8082A

Lab Sample ID: B182818-MS1 Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.046	
	2	0.000	-0.030	0.030	0.048	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.093	
	2	0.000	-0.030	0.030	0.097	4.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

Matrix Spike

Lab Sample ID: B182818-MS2

Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.047	
	2	0.000	-0.030	0.030	0.051	8.2
Aroclor-1260	1	0.000	-0.030	0.030	0.051	
	2	0.000	-0.030	0.030	0.057	9.2

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182818-MSD1 Date(s) Analyzed: 08/07/2017 08/07/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.037	
	2	0.000	-0.030	0.030	0.039	5.3
Aroclor-1260	1	0.000	-0.030	0.030	0.048	
	2	0.000	-0.030	0.030	0.051	6.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182818-MSD2 Date(s) Analyzed: 08/07/2017 08/07/2017

Instrument ID (1): _____ Instrument ID (2): _____

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.049	
	2	0.000	-0.030	0.030	0.053	7.8
Aroclor-1260	1	0.000	-0.030	0.030	0.051	
	2	0.000	-0.030	0.030	0.056	9.4

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

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.
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.

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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
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 Public 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

1760911



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC5-SO-6-1	7/21/17	9:00		X	S	U
2	WS-AOC5-SO-9-1		9:03				
3	WS-AOC5-SO-8-1		9:19				
4	WS-AOC5-SO-8-2		9:21				
5	WS-AOC5-SO-3-1 (MS-MSD)		9:22				
6	WS-AOC5-SO-3-2		9:23				
7	WS-AOC5-SO-5-1		9:25				
8	WS-AOC5-SO-4-1		9:37				
9	WS-AOC5-SO-2-1		9:32				
10	WS-AOC5-SO-7-1		9:38				

ANALYSIS REQUESTED

ETPH
PAHs
(Soxhlet) PCBs

- 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)

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

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

Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	7/21/17 1405
Received by: (signature)	Date/Time
<i>[Signature]</i>	7/21/17 1405
Relinquished by: (signature)	Date/Time
<i>[Signature]</i>	7/21/17 7:00
Received by: (signature)	Date/Time
<i>[Signature]</i>	7/21/17 1900
Relinquished by: (signature)	Date/Time
Received by: (signature)	Date/Time

39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

1760911

Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

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 5-Day
 Other: _____
 Rush Approval Required
 1-Day 3-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	Matrix Code	Conc Code
11	WS-ACC5-SO-1-1	7/2/11	10:04	X		S	U
12	WS-ACC5-SO-1-2		10:04				
13	WS-ACCIZE-SO-1-1		11:08				
14	WS-ACCIZE-SO-1-2		11:10				
15	WS-ACCIZE-SO2-1		11:30				
16	WS-ACCIZE-SO2-2		11:32				
17	WS-ACCIZE-SO-3-1		11:54				
18	WS-ACCIZE-SO-3-2		11:56				
19	WS-ACCIZE-SO-4-1 (MS-MSD)		12:09				
20	WS-ACCIZE-SO-4-2		12:10				

Comments: WS-ACCIZE-SO-4-1 (MS-MSD)

Please hold excess volumes for possible SPL 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	Detection Limit Requirements
<i>[Signature]</i>	7/2/11 1405	MS
Received by: (signature)	Date/Time	
<i>[Signature]</i>	7/2/11 1405	
Relinquished by: (signature)	Date/Time	
<i>[Signature]</i>	7-2-11 7:00	RES DEC
Received by: (signature)	Date/Time	
<i>[Signature]</i>	7/2/11 1900	Other
Relinquished by: (signature)	Date/Time	
<i>[Signature]</i>		
Received by: (signature)	Date/Time	
<i>[Signature]</i>		

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

of Containers
 2 Preservation Code
 3 Container Code
 Dissolved Metals Samples
 Field Filtered
 Lab to Filter
 Organic/Aqueous 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)

ANALYSIS REQUESTED

ETPH
 PAHs
 (Soxhlet) PCBs

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson
 Received By JM Date 7/2/17 Time 1900

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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? F
 Is there Headspace where applicable? N/A MS/MSD? N/A T JM
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? N/A Acid Base

Vials	#	Containers:	#	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear
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:\HPCHEM1\DATA\A080217\A0802052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802052.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	389057	424164	-8
c - 10	1.43	379037	424164	-11
c - 12	2.16	405194	424164	-4
c - 14	2.84	416545	424164	-2
c - 16	3.44	430703	424164	2
c - 18	4.02	429130	424164	1
o-Terphenyl	4.31	496417	424164	
c - 20	4.63	438816	424164	3
c - 22	5.15	447046	424164	5
c - 24	5.60	417947	424164	-1
c - 26	6.00	445598	424164	5
c - 28	6.36	441275	424164	4
c - 30	6.69	439402	424164	4
c - 32	7.00	429465	424164	1
c - 34	7.30	427962	424164	1
c - 36	7.58	425281	424164	0

* One compound allowed %D <= 50%

Samples

17G0912-08
 17G0932-01
 17G0932-02
 17G0932-05
 17G0911-14
 17G0911-15
 17G0932-03

D:\HPCHEM\1\DATA\A080217\A0802086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802086.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.07	384056	421351	-9
c - 10	1.43	374286	421351	-11
c - 12	2.17	396009	421351	-6
c - 14	2.84	413660	421351	-2
c - 16	3.44	426881	421351	1
c - 18	4.02	425337	421351	1
o-Terphenyl	4.31	491103	421351	
c - 20	4.63	435935	421351	3
c - 22	5.15	444516	421351	5
c - 24	5.60	418309	421351	-1
c - 26	6.00	444009	421351	5
c - 28	6.36	440050	421351	4
c - 30	6.69	439368	421351	4
c - 32	7.00	428360	421351	2
c - 34	7.30	426707	421351	1
c - 36	7.58	422783	421351	0

* One compound allowed %D <= 50%

Samples

17G1043-01
 17G1043-02
 17G1043-03
 17G1077-07
 17G0774-12@10X
 17G0774-18@10X
 17G0776-17@20X
 17G0867-05
 17G0774-18
 17G0911-15@5X
 17G0911-20@5X
 17G0911-13@5X
 17G0911-17@5X

D:\HPCHEM\1\DATA\A080217\A0802142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802142.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.07	452530	495049	-9
c - 10	1.42	444292	495049	-10
c - 12	2.16	467152	495049	-6
c - 14	2.83	487205	495049	-2
c - 16	3.43	501083	495049	1
c - 18	4.02	498005	495049	1
o-Terphenyl	4.30	578868	495049	
c - 20	4.63	510389	495049	3
c - 22	5.15	520281	495049	5
c - 24	5.60	489573	495049	-1
c - 26	5.99	520841	495049	5
c - 28	6.36	515925	495049	4
c - 30	6.69	514552	495049	4
c - 32	7.00	503320	495049	2
c - 34	7.29	502383	495049	1
c - 36	7.58	498204	495049	1

* One compound allowed %D <= 50%

Samples

17G1045-01
 17G1045-03
 17G1045-04

D:\HPCHEM\1\DATA\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802053.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D <= 50%

Samples

17G0683-12@20X
 17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A080293.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D <= 50%

Samples

17G1059-01@5X
 17G0865-14@5X
 17G0866-14@5X
 17G1077-03
 17G1079-06
 17G1048-01@50X
 17G0911-16@20X
 17G0913-08@50X

D:\HPCHEM\1\DATA\A080217\A0802162.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802162.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	523131	577439	-9
c - 10	1.42	531381	577439	-8
c - 12	2.16	556433	577439	-4
c - 14	2.83	572680	577439	-1
c - 16	3.43	587452	577439	2
c - 18	4.02	583468	577439	1
o-Terphenyl	4.30	646130	577439	
c - 20	4.63	598938	577439	4
c - 22	5.15	612203	577439	6
c - 24	5.60	573363	577439	-1
c - 26	5.99	607933	577439	5
c - 28	6.36	600085	577439	4
c - 30	6.69	590931	577439	2
c - 32	7.00	572798	577439	-1
c - 34	7.30	575085	577439	0
c - 36	7.58	575697	577439	0

* One compound allowed %D <= 50%

Samples

17G0987-05
 17G0911-18@5X
 17G0932-04
 17G1079-01@10X
 17G1079-13@10X
 17G0911-19@5X
 17G0774-19@10X
 17G0911-06@5X

D:\HPCHEM1\DATA\A080217.SEC\A0802163.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802163.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.14	485956	520304	-7
c - 10	1.49	494533	520304	-5
c - 12	2.22	520225	520304	0
c - 14	2.88	533472	520304	3
c - 16	3.47	543057	520304	4
c - 18	4.05	534620	520304	3
o-Terphenyl	4.35	588486	520304	
c - 20	4.66	539844	520304	4
c - 22	5.17	544014	520304	5
c - 24	5.61	505579	520304	-3
c - 26	6.01	530071	520304	2
c - 28	6.36	522013	520304	0
c - 30	6.70	517402	520304	-1
c - 32	7.00	506029	520304	-3
c - 34	7.29	512021	520304	-2
c - 36	7.57	515727	520304	-1

* One compound allowed %D <= 50%

Samples

17G0987-10@20X
 17G1077-14@10X
 17G1077-17@10X
 17G0868-02@200X
 17G0868-07@200X
 17G1079-09@5X
 17G1051-01@20X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0911

Laboratory Sample ID(s):

Sample Date(s):

17G0911-01 thru 17G0911-20

07/21/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Tod Kopyscinski

Position: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 08/08/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 8, 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: 17G0912

Enclosed are results of analyses for samples received by the laboratory on July 21, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0912

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-43-1	17G0912-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-43-2	17G0912-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-43-3	17G0912-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-46-1	17G0912-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-46-2	17G0912-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-46-3	17G0912-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-50-1A	17G0912-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-50-1B	17G0912-08	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-50-2	17G0912-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-50-3	17G0912-10	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-53-1	17G0912-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-53-2	17G0912-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-53-3	17G0912-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-62-1A	17G0912-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-62-1B	17G0912-15	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-62-2	17G0912-16	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-62-3	17G0912-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-61-1	17G0912-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-61-2	17G0912-19	Soil		SM 2540G SW-846 8082A	

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

REPORT DATE: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0912

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-61-3	17G0912-20	Soil		SM 2540G SW-846 8082A	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-1

Sampled: 7/21/2017 11:20

Sample ID: 17G0912-01

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	7/30/17	8/7/17 13:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 13:55	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.4	30-150					8/7/17 13:55	
Decachlorobiphenyl [2]		77.1	30-150					8/7/17 13:55	
Tetrachloro-m-xylene [1]		76.6	30-150					8/7/17 13:55	
Tetrachloro-m-xylene [2]		80.8	30-150					8/7/17 13:55	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-1

Sampled: 7/21/2017 11:20

Sample ID: 17G0912-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-2

Sampled: 7/21/2017 11:21

Sample ID: 17G0912-02

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	7/30/17	8/7/17 14:07	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:07	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.1	30-150					8/7/17 14:07	
Decachlorobiphenyl [2]		82.3	30-150					8/7/17 14:07	
Tetrachloro-m-xylene [1]		82.4	30-150					8/7/17 14:07	
Tetrachloro-m-xylene [2]		85.4	30-150					8/7/17 14:07	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-2

Sampled: 7/21/2017 11:21

Sample ID: 17G0912-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-3

Sampled: 7/21/2017 11:22

Sample ID: 17G0912-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:19	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.7	30-150					8/7/17 14:19	
Decachlorobiphenyl [2]		90.3	30-150					8/7/17 14:19	
Tetrachloro-m-xylene [1]		68.2	30-150					8/7/17 14:19	
Tetrachloro-m-xylene [2]		75.3	30-150					8/7/17 14:19	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-43-3

Sampled: 7/21/2017 11:22

Sample ID: 17G0912-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.4		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-1

Sampled: 7/21/2017 11:45

Sample ID: 17G0912-04

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	7/30/17	8/7/17 14:31	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:31	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.0	30-150					8/7/17 14:31	
Decachlorobiphenyl [2]		76.9	30-150					8/7/17 14:31	
Tetrachloro-m-xylene [1]		75.5	30-150					8/7/17 14:31	
Tetrachloro-m-xylene [2]		78.8	30-150					8/7/17 14:31	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-1

Sampled: 7/21/2017 11:45

Sample ID: 17G0912-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-2

Sampled: 7/21/2017 11:46

Sample ID: 17G0912-05

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	7/30/17	8/7/17 14:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:43	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.3	30-150					8/7/17 14:43	
Decachlorobiphenyl [2]		77.1	30-150					8/7/17 14:43	
Tetrachloro-m-xylene [1]		86.5	30-150					8/7/17 14:43	
Tetrachloro-m-xylene [2]		89.5	30-150					8/7/17 14:43	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-2

Sampled: 7/21/2017 11:46

Sample ID: 17G0912-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-3

Sampled: 7/21/2017 11:47

Sample ID: 17G0912-06

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	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 14:56	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		62.1	30-150					8/7/17 14:56	
Decachlorobiphenyl [2]		62.6	30-150					8/7/17 14:56	
Tetrachloro-m-xylene [1]		61.7	30-150					8/7/17 14:56	
Tetrachloro-m-xylene [2]		64.6	30-150					8/7/17 14:56	

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: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-46-3

Sampled: 7/21/2017 11:47

Sample ID: 17G0912-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-1A

Sampled: 7/21/2017 11:55

Sample ID: 17G0912-07

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	7/30/17	8/7/17 15:08	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:08	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		67.6	30-150					8/7/17 15:08	
Decachlorobiphenyl [2]		75.7	30-150					8/7/17 15:08	
Tetrachloro-m-xylene [1]		71.4	30-150					8/7/17 15:08	
Tetrachloro-m-xylene [2]		79.5	30-150					8/7/17 15:08	

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: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-1A

Sampled: 7/21/2017 11:55

Sample ID: 17G0912-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-1B

Sampled: 7/21/2017 11:56

Sample ID: 17G0912-08

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	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Chrysene	0.24	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Phenanthrene	0.29	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:00	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		61.2	30-130					7/31/17 18:00	
2-Fluorobiphenyl		63.2	30-130					7/31/17 18:00	
p-Terphenyl-d14		67.9	30-130					7/31/17 18:00	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-1B

Sampled: 7/21/2017 11:56

Sample ID: 17G0912-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	57	11	mg/Kg dry	1		CTDEP ETPH	7/28/17	8/2/17 16:22	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		70.8	50-150					8/2/17 16:22	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-1B

Sampled: 7/21/2017 11:56

Sample ID: 17G0912-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-2

Sampled: 7/21/2017 11:57

Sample ID: 17G0912-09

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	7/30/17	8/7/17 15:56	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:56	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		77.0	30-150					8/7/17 15:56	
Decachlorobiphenyl [2]		76.5	30-150					8/7/17 15:56	
Tetrachloro-m-xylene [1]		79.3	30-150					8/7/17 15:56	
Tetrachloro-m-xylene [2]		82.1	30-150					8/7/17 15:56	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-2

Sampled: 7/21/2017 11:57

Sample ID: 17G0912-09

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	89.2		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-3

Sampled: 7/21/2017 11:58

Sample ID: 17G0912-10

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	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:09	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.7	30-150					8/7/17 16:09	
Decachlorobiphenyl [2]		79.0	30-150					8/7/17 16:09	
Tetrachloro-m-xylene [1]		79.0	30-150					8/7/17 16:09	
Tetrachloro-m-xylene [2]		81.8	30-150					8/7/17 16:09	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-50-3

Sampled: 7/21/2017 11:58

Sample ID: 17G0912-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.7		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-1

Sampled: 7/21/2017 12:43

Sample ID: 17G0912-11

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	7/30/17	8/7/17 16:21	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:21	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.5	30-150					8/7/17 16:21	
Decachlorobiphenyl [2]		78.8	30-150					8/7/17 16:21	
Tetrachloro-m-xylene [1]		80.6	30-150					8/7/17 16:21	
Tetrachloro-m-xylene [2]		84.1	30-150					8/7/17 16:21	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-1

Sampled: 7/21/2017 12:43

Sample ID: 17G0912-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-2

Sampled: 7/21/2017 12:44

Sample ID: 17G0912-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:33	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		69.5	30-150					8/7/17 16:33	
Decachlorobiphenyl [2]		68.8	30-150					8/7/17 16:33	
Tetrachloro-m-xylene [1]		72.7	30-150					8/7/17 16:33	
Tetrachloro-m-xylene [2]		76.5	30-150					8/7/17 16:33	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-2

Sampled: 7/21/2017 12:44

Sample ID: 17G0912-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-3

Sampled: 7/21/2017 12:45

Sample ID: 17G0912-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:45	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		76.0	30-150					8/7/17 16:45	
Decachlorobiphenyl [2]		78.5	30-150					8/7/17 16:45	
Tetrachloro-m-xylene [1]		73.5	30-150					8/7/17 16:45	
Tetrachloro-m-xylene [2]		77.1	30-150					8/7/17 16:45	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-53-3

Sampled: 7/21/2017 12:45

Sample ID: 17G0912-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.5		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-1A

Sampled: 7/21/2017 12:54

Sample ID: 17G0912-14

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	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:57	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.1	30-150					8/7/17 16:57	
Decachlorobiphenyl [2]		87.3	30-150					8/7/17 16:57	
Tetrachloro-m-xylene [1]		89.6	30-150					8/7/17 16:57	
Tetrachloro-m-xylene [2]		92.6	30-150					8/7/17 16:57	

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-1A

Sampled: 7/21/2017 12:54

Sample ID: 17G0912-14

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	90.7		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-1B

Sampled: 7/21/2017 12:55

Sample ID: 17G0912-15

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	7/28/17	7/31/17 18:24	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/28/17	7/31/17 18:24	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		62.7	30-130					7/31/17 18:24	
2-Fluorobiphenyl		59.8	30-130					7/31/17 18:24	
p-Terphenyl-d14		63.0	30-130					7/31/17 18:24	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-1B

Sampled: 7/21/2017 12:55

Sample ID: 17G0912-15

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	46	12	mg/Kg dry	1		CTDEP ETPH	7/28/17	8/2/17 17:53	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		82.3	50-150					8/2/17 17:53	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-1B

Sampled: 7/21/2017 12:55

Sample ID: 17G0912-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-2

Sampled: 7/21/2017 12:56

Sample ID: 17G0912-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:10	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.8	30-150					8/7/17 17:10	
Decachlorobiphenyl [2]		85.2	30-150					8/7/17 17:10	
Tetrachloro-m-xylene [1]		85.2	30-150					8/7/17 17:10	
Tetrachloro-m-xylene [2]		88.7	30-150					8/7/17 17:10	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-2

Sampled: 7/21/2017 12:56

Sample ID: 17G0912-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-3

Sampled: 7/21/2017 12:57

Sample ID: 17G0912-17

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	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:22	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		78.3	30-150					8/7/17 17:22	
Decachlorobiphenyl [2]		75.9	30-150					8/7/17 17:22	
Tetrachloro-m-xylene [1]		80.0	30-150					8/7/17 17:22	
Tetrachloro-m-xylene [2]		82.9	30-150					8/7/17 17:22	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-62-3

Sampled: 7/21/2017 12:57

Sample ID: 17G0912-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.9		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-1

Sampled: 7/21/2017 13:02

Sample ID: 17G0912-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:34	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.7	30-150					8/7/17 17:34	
Decachlorobiphenyl [2]		93.9	30-150					8/7/17 17:34	
Tetrachloro-m-xylene [1]		93.7	30-150					8/7/17 17:34	
Tetrachloro-m-xylene [2]		96.2	30-150					8/7/17 17:34	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-1

Sampled: 7/21/2017 13:02

Sample ID: 17G0912-18

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	91.1		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-2

Sampled: 7/21/2017 13:03

Sample ID: 17G0912-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:46	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		90.9	30-150					8/7/17 17:46	
Decachlorobiphenyl [2]		84.3	30-150					8/7/17 17:46	
Tetrachloro-m-xylene [1]		78.7	30-150					8/7/17 17:46	
Tetrachloro-m-xylene [2]		81.8	30-150					8/7/17 17:46	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-2

Sampled: 7/21/2017 13:03

Sample ID: 17G0912-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-3

Sampled: 7/21/2017 13:04

Sample ID: 17G0912-20

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	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:58	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.1	30-150					8/7/17 17:58	
Decachlorobiphenyl [2]		89.7	30-150					8/7/17 17:58	
Tetrachloro-m-xylene [1]		85.1	30-150					8/7/17 17:58	
Tetrachloro-m-xylene [2]		87.0	30-150					8/7/17 17:58	

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

Sample Description:

Work Order: 17G0912

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-61-3

Sampled: 7/21/2017 13:04

Sample ID: 17G0912-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/28/17	7/29/17 6:29	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0912-08 [WS-AOC12E-SO-50-1B]	B182788	30.0	1.00	07/28/17
17G0912-15 [WS-AOC12E-SO-62-1B]	B182788	30.0	1.00	07/28/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0912-01 [WS-AOC12E-SO-43-1]	B182835	07/28/17
17G0912-02 [WS-AOC12E-SO-43-2]	B182835	07/28/17
17G0912-03 [WS-AOC12E-SO-43-3]	B182835	07/28/17
17G0912-04 [WS-AOC12E-SO-46-1]	B182835	07/28/17
17G0912-05 [WS-AOC12E-SO-46-2]	B182835	07/28/17
17G0912-06 [WS-AOC12E-SO-46-3]	B182835	07/28/17
17G0912-07 [WS-AOC12E-SO-50-1A]	B182835	07/28/17
17G0912-08 [WS-AOC12E-SO-50-1B]	B182835	07/28/17
17G0912-09 [WS-AOC12E-SO-50-2]	B182835	07/28/17
17G0912-10 [WS-AOC12E-SO-50-3]	B182835	07/28/17
17G0912-11 [WS-AOC12E-SO-53-1]	B182835	07/28/17
17G0912-12 [WS-AOC12E-SO-53-2]	B182835	07/28/17
17G0912-13 [WS-AOC12E-SO-53-3]	B182835	07/28/17
17G0912-14 [WS-AOC12E-SO-62-1A]	B182835	07/28/17
17G0912-15 [WS-AOC12E-SO-62-1B]	B182835	07/28/17
17G0912-16 [WS-AOC12E-SO-62-2]	B182835	07/28/17
17G0912-17 [WS-AOC12E-SO-62-3]	B182835	07/28/17
17G0912-18 [WS-AOC12E-SO-61-1]	B182835	07/28/17
17G0912-19 [WS-AOC12E-SO-61-2]	B182835	07/28/17
17G0912-20 [WS-AOC12E-SO-61-3]	B182835	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0912-01 [WS-AOC12E-SO-43-1]	B182849	10.0	10.0	07/30/17
17G0912-02 [WS-AOC12E-SO-43-2]	B182849	10.0	10.0	07/30/17
17G0912-03 [WS-AOC12E-SO-43-3]	B182849	10.2	10.0	07/30/17
17G0912-04 [WS-AOC12E-SO-46-1]	B182849	10.0	10.0	07/30/17
17G0912-05 [WS-AOC12E-SO-46-2]	B182849	10.2	10.0	07/30/17
17G0912-06 [WS-AOC12E-SO-46-3]	B182849	10.1	10.0	07/30/17
17G0912-07 [WS-AOC12E-SO-50-1A]	B182849	10.4	10.0	07/30/17
17G0912-09 [WS-AOC12E-SO-50-2]	B182849	10.2	10.0	07/30/17
17G0912-10 [WS-AOC12E-SO-50-3]	B182849	10.0	10.0	07/30/17
17G0912-11 [WS-AOC12E-SO-53-1]	B182849	10.1	10.0	07/30/17
17G0912-12 [WS-AOC12E-SO-53-2]	B182849	10.2	10.0	07/30/17
17G0912-13 [WS-AOC12E-SO-53-3]	B182849	10.0	10.0	07/30/17
17G0912-14 [WS-AOC12E-SO-62-1A]	B182849	10.2	10.0	07/30/17
17G0912-16 [WS-AOC12E-SO-62-2]	B182849	10.2	10.0	07/30/17
17G0912-17 [WS-AOC12E-SO-62-3]	B182849	10.4	10.0	07/30/17
17G0912-18 [WS-AOC12E-SO-61-1]	B182849	10.2	10.0	07/30/17
17G0912-19 [WS-AOC12E-SO-61-2]	B182849	10.3	10.0	07/30/17
17G0912-20 [WS-AOC12E-SO-61-3]	B182849	10.1	10.0	07/30/17

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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
17G0912-08 [WS-AOC12E-SO-50-1B]	B182765	30.0	1.00	07/28/17
17G0912-15 [WS-AOC12E-SO-62-1B]	B182765	30.0	1.00	07/28/17

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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 B182765 - SW-846 3546										
Blank (B182765-BLK1)										
Prepared: 07/28/17 Analyzed: 07/31/17										
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	2.01		mg/Kg wet	3.33		60.3	30-130			
Surrogate: 2-Fluorobiphenyl	1.98		mg/Kg wet	3.33		59.3	30-130			
Surrogate: p-Terphenyl-d14	2.68		mg/Kg wet	3.33		80.3	30-130			
LCS (B182765-BS1)										
Prepared: 07/28/17 Analyzed: 07/31/17										
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.6	40-140			
Acenaphthylene	1.12	0.17	mg/Kg wet	1.67		67.3	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.6	40-140			
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140			
Benzo(b)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.3	40-140			
Benzo(g,h,i)perylene	1.55	0.17	mg/Kg wet	1.67		92.9	40-140			
Benzo(k)fluoranthene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140			
Dibenz(a,h)anthracene	1.47	0.17	mg/Kg wet	1.67		88.0	40-140			
Fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140			
Fluorene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Indeno(1,2,3-cd)pyrene	1.48	0.17	mg/Kg wet	1.67		88.7	40-140			
2-Methylnaphthalene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140			
Naphthalene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140			
Phenanthrene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Pyrene	1.30	0.17	mg/Kg wet	1.67		78.0	40-140			
Surrogate: Nitrobenzene-d5	2.41		mg/Kg wet	3.33		72.2	30-130			
Surrogate: 2-Fluorobiphenyl	2.68		mg/Kg wet	3.33		80.4	30-130			
Surrogate: p-Terphenyl-d14	2.99		mg/Kg wet	3.33		89.8	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 B182765 - SW-846 3546										
LCS Dup (B182765-BSD1)										
					Prepared: 07/28/17 Analyzed: 07/31/17					
Acenaphthene	1.28	0.17	mg/Kg wet	1.67		76.7	40-140	9.71	30	
Acenaphthylene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140	10.1	30	
Anthracene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	6.33	30	
Benzo(a)anthracene	1.33	0.17	mg/Kg wet	1.67		80.1	40-140	5.78	30	
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	4.42	30	
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	3.66	30	
Benzo(g,h,i)perylene	1.64	0.17	mg/Kg wet	1.67		98.2	40-140	5.52	30	
Benzo(k)fluoranthene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140	6.73	30	
Chrysene	1.32	0.17	mg/Kg wet	1.67		79.0	40-140	5.81	30	
Dibenz(a,h)anthracene	1.54	0.17	mg/Kg wet	1.67		92.6	40-140	5.05	30	
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140	3.62	30	
Fluorene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	10.3	30	
Indeno(1,2,3-cd)pyrene	1.51	0.17	mg/Kg wet	1.67		90.8	40-140	2.30	30	
2-Methylnaphthalene	1.33	0.17	mg/Kg wet	1.67		79.6	40-140	14.9	30	
Naphthalene	1.25	0.17	mg/Kg wet	1.67		75.2	40-140	18.8	30	
Phenanthrene	1.33	0.17	mg/Kg wet	1.67		80.0	40-140	7.25	30	
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.1	40-140	8.73	30	
Surrogate: Nitrobenzene-d5	2.95		mg/Kg wet	3.33		88.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.94		mg/Kg wet	3.33		88.3	30-130			
Surrogate: p-Terphenyl-d14	3.22		mg/Kg wet	3.33		96.5	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182849 - SW-846 3540C										
Blank (B182849-BLK1)										
Prepared: 07/30/17 Analyzed: 08/07/17										
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.212		mg/Kg wet	0.200		106	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.154		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.200		75.5	30-150			
LCS (B182849-BS1)										
Prepared: 07/30/17 Analyzed: 08/07/17										
Aroclor-1016	0.22	0.020	mg/Kg wet	0.200		110	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.21	0.020	mg/Kg wet	0.200		103	40-140			
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		97.0	40-140			
Surrogate: Decachlorobiphenyl	0.253		mg/Kg wet	0.200		126	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.226		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.2	30-150			
LCS Dup (B182849-BSD1)										
Prepared: 07/30/17 Analyzed: 08/07/17										
Aroclor-1016	0.22	0.020	mg/Kg wet	0.200		108	40-140	1.64	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		99.6	40-140	1.14	30	
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		102	40-140	1.12	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.8	40-140	1.26	30	
Surrogate: Decachlorobiphenyl	0.248		mg/Kg wet	0.200		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.222		mg/Kg wet	0.200		111	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		98.0	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 B182788 - SW-846 3546										
Blank (B182788-BLK1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.96		mg/Kg wet	3.33		88.7	50-150			
LCS (B182788-BS1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	28.8	10	mg/Kg wet	33.3		86.4	60-120			
Surrogate: o-Terphenyl	2.72		mg/Kg wet	3.33		81.7	50-150			
LCS Dup (B182788-BSD1)										
					Prepared: 07/28/17 Analyzed: 08/02/17					
CT ETPH	27.8	10	mg/Kg wet	33.3		83.4	60-120	3.51	30	
Surrogate: o-Terphenyl	2.40		mg/Kg wet	3.33		72.1	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 B182835 - % Solids										
Duplicate (B182835-DUP1)	Source: 17G0912-01			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	91.9		% Wt		89.2			2.98	20	
Duplicate (B182835-DUP2)	Source: 17G0912-10			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	84.0		% Wt		80.7			4.01	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B182849-BS1 Date(s) Analyzed: 08/07/2017 08/07/2017

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	0.22	
	2	0.000	-0.030	0.030	0.20	9.5
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.19	10.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B182849-BSD1 Date(s) Analyzed: 08/07/2017 08/07/2017

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	0.22	
	2	0.000	-0.030	0.030	0.20	9.5
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	10.0

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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.

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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
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 Public 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

1760912

Phone: 413-525-2332
 Fax: 413-525-6405



Email: info@contestlabs.com

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: Malcolm Beeler

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

Requested Turnaround Time:
 7-Day 10-Day
 Other: 5-day
 Rush Approval Required
 1-Day 3-Day
 2-Day 4-Day
 Data Delivery:
 Format: PDF EXCEL
 Other:
 Enhanced Data Package Required:
 Email To: beelerm@wseinc.com
 Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-ADCLZE-SO-43-1	7/21/17	11:20		X	S	U
2	WS-ADCLZE-SO-43-2		11:21				
3	WS-ADCLZE-SO-43-3		11:22				
4	WS-ADCLZE-SO-46-1		11:45				
5	WS-ADCLZE-SO-46-2		11:46				
6	WS-ADCLZE-SO-46-3		11:47				
7	WS-ADCLZE-SO-50-1A		11:55				
8	WS-ADCLZE-SO-50-1B		11:56				
9	WS-ADCLZE-SO-50-2		11:57				
10	WS-ADCLZE-SO-50-3		11:58				

ANALYSIS REQUESTED

ETPH
 PAHs
 (Soxlet) PCBs

- 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)

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

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

Comments:
 Please hold excess volumes for possible SPLP analyses.

Relinquished by: (signature)	Date/Time:
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405
<i>Beeler</i>	7/21/17 1405

1760912

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD



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

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 #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ADCLZE-SO-S3-1	7/21/17	12:43	X	S	U	
12	WS-ADCLZE-SO-S3-2		12:44				
13	WS-ADCLZE-SO-S3-3		12:45				
14	WS-ADCLZE-SO-62-1A		12:54				
15	WS-ADCLZE-SO-62-1B		12:55				
16	WS-ADCLZE-SO-62-2		12:56				
17	WS-ADCLZE-SO-62-3		12:57				
18	WS-ADCLZE-SO-61-1		13:02				
19	WS-ADCLZE-SO-61-2		13:03				
20	WS-ADCLZE-SO-61-3		13:04				

ANALYSIS REQUESTED

(Soxhlet) PCBs
 PAHs
 LTPH

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)

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

Please hold excess volumes for possible SPLP analyses.

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

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson
 Received By JM Date 7/21/17 Time 1900
 How were the samples received? In Cooler T No Cooler On Ice + No Ice
 Direct from Sampling Ambient Melted Ice
 Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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? F
 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
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:\HPCHEM1\DATA\A080217\A0802052.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802052.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	389057	424164	-8
c - 10	1.43	379037	424164	-11
c - 12	2.16	405194	424164	-4
c - 14	2.84	416545	424164	-2
c - 16	3.44	430703	424164	2
c - 18	4.02	429130	424164	1
o-Terphenyl	4.31	496417	424164	
c - 20	4.63	438816	424164	3
c - 22	5.15	447046	424164	5
c - 24	5.60	417947	424164	-1
c - 26	6.00	445598	424164	5
c - 28	6.36	441275	424164	4
c - 30	6.69	439402	424164	4
c - 32	7.00	429465	424164	1
c - 34	7.30	427962	424164	1
c - 36	7.58	425281	424164	0

* One compound allowed %D <= 50%

Samples

17G0912-08
 17G0932-01
 17G0932-02
 17G0932-05
 17G0911-14
 17G0911-15
 17G0932-03

D:\HPCHEM\1\DATA\A080217\A0802086.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802086.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.07	384056	421351	-9
c - 10	1.43	374286	421351	-11
c - 12	2.17	396009	421351	-6
c - 14	2.84	413660	421351	-2
c - 16	3.44	426881	421351	1
c - 18	4.02	425337	421351	1
o-Terphenyl	4.31	491103	421351	
c - 20	4.63	435935	421351	3
c - 22	5.15	444516	421351	5
c - 24	5.60	418309	421351	-1
c - 26	6.00	444009	421351	5
c - 28	6.36	440050	421351	4
c - 30	6.69	439368	421351	4
c - 32	7.00	428360	421351	2
c - 34	7.30	426707	421351	1
c - 36	7.58	422783	421351	0

* One compound allowed %D <= 50%

Samples

17G1043-01
 17G1043-02
 17G1043-03
 17G1077-07
 17G0774-12@10X
 17G0774-18@10X
 17G0776-17@20X
 17G0867-05
 17G0774-18
 17G0911-15@5X
 17G0911-20@5X
 17G0911-13@5X
 17G0911-17@5X

D:\HPCHEM\1\DATA\A080217\A0802142.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802142.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	***D +/- 20
c - 9	1.07	452530	495049	-9
c - 10	1.42	444292	495049	-10
c - 12	2.16	467152	495049	-6
c - 14	2.83	487205	495049	-2
c - 16	3.43	501083	495049	1
c - 18	4.02	498005	495049	1
o-Terphenyl	4.30	578868	495049	
c - 20	4.63	510389	495049	3
c - 22	5.15	520281	495049	5
c - 24	5.60	489573	495049	-1
c - 26	5.99	520841	495049	5
c - 28	6.36	515925	495049	4
c - 30	6.69	514552	495049	4
c - 32	7.00	503320	495049	2
c - 34	7.29	502383	495049	1
c - 36	7.58	498204	495049	1

* One compound allowed %D <= 50%

Samples

17G1045-01
 17G1045-03
 17G1045-04



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: 17G0912

Laboratory Sample ID(s):

Sample Date(s):

17G0912-01 thru 17G0912-20

07/21/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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: Project Manager

Printed Name: Lisa A. Worthington

Date: 08/08/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 8, 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: 17G0913

Enclosed are results of analyses for samples received by the laboratory on July 21, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0913

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-58-1	17G0913-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-58-2	17G0913-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-58-3	17G0913-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-54-1	17G0913-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-54-2	17G0913-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-54-3	17G0913-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-DUP-16	17G0913-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-DUP-17	17G0913-08	Soil		CTDEP ETPH SM 2540G SW-846 8082A SW-846 8270D	
WS-AOC12E-SO-DUP-18	17G0913-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-DUP-19	17G0913-10	Soil		SM 2540G SW-846 8082A	

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**

17G0913-08[WS-AOC12E-SO-DUP-17]

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

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-1

Sampled: 7/21/2017 13:08

Sample ID: 17G0913-01

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	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:30	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		70.8	30-150					8/7/17 15:30	
Decachlorobiphenyl [2]		71.9	30-150					8/7/17 15:30	
Tetrachloro-m-xylene [1]		86.7	30-150					8/7/17 15:30	
Tetrachloro-m-xylene [2]		91.1	30-150					8/7/17 15:30	

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-1

Sampled: 7/21/2017 13:08

Sample ID: 17G0913-01

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	92.8		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-2

Sampled: 7/21/2017 13:09

Sample ID: 17G0913-02

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	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 15:48	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		75.2	30-150					8/7/17 15:48	
Decachlorobiphenyl [2]		67.8	30-150					8/7/17 15:48	
Tetrachloro-m-xylene [1]		77.3	30-150					8/7/17 15:48	
Tetrachloro-m-xylene [2]		80.4	30-150					8/7/17 15:48	

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: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-2

Sampled: 7/21/2017 13:09

Sample ID: 17G0913-02

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	82.1		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-3

Sampled: 7/21/2017 13:10

Sample ID: 17G0913-03

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	7/30/17	8/7/17 16:05	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:05	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.1	30-150					8/7/17 16:05	
Decachlorobiphenyl [2]		84.2	30-150					8/7/17 16:05	
Tetrachloro-m-xylene [1]		84.4	30-150					8/7/17 16:05	
Tetrachloro-m-xylene [2]		86.4	30-150					8/7/17 16:05	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-58-3

Sampled: 7/21/2017 13:10

Sample ID: 17G0913-03

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	83.6		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-1

Sampled: 7/21/2017 13:17

Sample ID: 17G0913-04

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	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:23	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		55.7	30-150					8/7/17 16:23	
Decachlorobiphenyl [2]		55.6	30-150					8/7/17 16:23	
Tetrachloro-m-xylene [1]		73.0	30-150					8/7/17 16:23	
Tetrachloro-m-xylene [2]		74.5	30-150					8/7/17 16:23	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-1

Sampled: 7/21/2017 13:17

Sample ID: 17G0913-04

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	91.3		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-2

Sampled: 7/21/2017 13:18

Sample ID: 17G0913-05

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	7/30/17	8/7/17 16:41	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:41	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.7	30-150					8/7/17 16:41	
Decachlorobiphenyl [2]		77.1	30-150					8/7/17 16:41	
Tetrachloro-m-xylene [1]		88.2	30-150					8/7/17 16:41	
Tetrachloro-m-xylene [2]		90.0	30-150					8/7/17 16:41	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-2

Sampled: 7/21/2017 13:18

Sample ID: 17G0913-05

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	88.7		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-3

Sampled: 7/21/2017 13:19

Sample ID: 17G0913-06

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	7/30/17	8/7/17 16:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 16:58	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.9	30-150					8/7/17 16:58	
Decachlorobiphenyl [2]		85.1	30-150					8/7/17 16:58	
Tetrachloro-m-xylene [1]		87.4	30-150					8/7/17 16:58	
Tetrachloro-m-xylene [2]		90.1	30-150					8/7/17 16:58	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-54-3

Sampled: 7/21/2017 13:19

Sample ID: 17G0913-06

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	81.8		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-16

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-07

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	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:16	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.0	30-150					8/7/17 17:16	
Decachlorobiphenyl [2]		84.2	30-150					8/7/17 17:16	
Tetrachloro-m-xylene [1]		87.1	30-150					8/7/17 17:16	
Tetrachloro-m-xylene [2]		88.0	30-150					8/7/17 17:16	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-16

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-07

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	98.6		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-17

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-08

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	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Chrysene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Fluoranthene	0.27	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Phenanthrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Pyrene	0.42	0.21	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 20:46	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		62.8	30-130					8/3/17 20:46	
2-Fluorobiphenyl		69.4	30-130					8/3/17 20:46	
p-Terphenyl-d14		74.6	30-130					8/3/17 20:46	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-17

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:33	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		66.4	30-150					8/7/17 17:33	
Decachlorobiphenyl [2]		62.7	30-150					8/7/17 17:33	
Tetrachloro-m-xylene [1]		73.9	30-150					8/7/17 17:33	
Tetrachloro-m-xylene [2]		74.3	30-150					8/7/17 17:33	

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-17

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	620	mg/Kg dry	50		CTDEP ETPH	7/31/17	8/3/17 2:34	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		*	50-150		S-01			8/3/17 2:34	

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-17

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-18

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-09

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	7/30/17	8/7/17 17:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 17:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.6	30-150					8/7/17 17:51	
Decachlorobiphenyl [2]		86.3	30-150					8/7/17 17:51	
Tetrachloro-m-xylene [1]		92.8	30-150					8/7/17 17:51	
Tetrachloro-m-xylene [2]		93.2	30-150					8/7/17 17:51	

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-18

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-09

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	91.5		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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

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

Sample Description:

Work Order: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-19

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-10

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	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/30/17	8/7/17 18:08	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		79.8	30-150					8/7/17 18:08	
Decachlorobiphenyl [2]		74.3	30-150					8/7/17 18:08	
Tetrachloro-m-xylene [1]		81.3	30-150					8/7/17 18:08	
Tetrachloro-m-xylene [2]		82.3	30-150					8/7/17 18:08	

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: 17G0913

Date Received: 7/21/2017

Field Sample #: WS-AOC12E-SO-DUP-19

Sampled: 7/21/2017 00:00

Sample ID: 17G0913-10

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	85.8		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0913-08 [WS-AOC12E-SO-DUP-17]	B182860	30.0	1.00	07/31/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0913-01 [WS-AOC12E-SO-58-1]	B182835	07/28/17
17G0913-02 [WS-AOC12E-SO-58-2]	B182835	07/28/17
17G0913-03 [WS-AOC12E-SO-58-3]	B182835	07/28/17
17G0913-04 [WS-AOC12E-SO-54-1]	B182835	07/28/17
17G0913-05 [WS-AOC12E-SO-54-2]	B182835	07/28/17
17G0913-06 [WS-AOC12E-SO-54-3]	B182835	07/28/17
17G0913-07 [WS-AOC12E-SO-DUP-16]	B182835	07/28/17
17G0913-08 [WS-AOC12E-SO-DUP-17]	B182835	07/28/17
17G0913-09 [WS-AOC12E-SO-DUP-18]	B182835	07/28/17
17G0913-10 [WS-AOC12E-SO-DUP-19]	B182835	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0913-01 [WS-AOC12E-SO-58-1]	B182856	10.3	10.0	07/30/17
17G0913-02 [WS-AOC12E-SO-58-2]	B182856	10.0	10.0	07/30/17
17G0913-03 [WS-AOC12E-SO-58-3]	B182856	10.3	10.0	07/30/17
17G0913-04 [WS-AOC12E-SO-54-1]	B182856	10.7	10.0	07/30/17
17G0913-05 [WS-AOC12E-SO-54-2]	B182856	10.0	10.0	07/30/17
17G0913-06 [WS-AOC12E-SO-54-3]	B182856	10.5	10.0	07/30/17
17G0913-07 [WS-AOC12E-SO-DUP-16]	B182856	10.2	10.0	07/30/17
17G0913-08 [WS-AOC12E-SO-DUP-17]	B182856	10.0	10.0	07/30/17
17G0913-09 [WS-AOC12E-SO-DUP-18]	B182856	10.2	10.0	07/30/17
17G0913-10 [WS-AOC12E-SO-DUP-19]	B182856	10.1	10.0	07/30/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0913-08 [WS-AOC12E-SO-DUP-17]	B182789	30.0	1.00	07/28/17

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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
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Batch B182789 - SW-846 3546

Blank (B182789-BLK1)

Prepared: 07/28/17 Analyzed: 08/01/17

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	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.1	30-130			
Surrogate: p-Terphenyl-d14	3.22		mg/Kg wet	3.33		96.5	30-130			

LCS (B182789-BS1)

Prepared: 07/28/17 Analyzed: 08/01/17

Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140			
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Naphthalene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Surrogate: Nitrobenzene-d5	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/Kg wet	3.33		78.6	30-130			
Surrogate: p-Terphenyl-d14	3.16		mg/Kg wet	3.33		94.9	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 B182789 - SW-846 3546										
LCS Dup (B182789-BSD1)										
					Prepared: 07/28/17 Analyzed: 08/01/17					
Acenaphthene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140	16.1	30	
Acenaphthylene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140	14.7	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	17.2	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	16.1	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	17.9	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	19.7	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	19.5	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	19.4	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	16.9	30	
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	18.2	30	
Fluoranthene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	17.2	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	17.0	30	
Indeno(1,2,3-cd)pyrene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140	27.1	30	
2-Methylnaphthalene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	10.4	30	
Naphthalene	0.895	0.17	mg/Kg wet	1.67		53.7	40-140	11.0	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	17.2	30	
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	16.6	30	
Surrogate: Nitrobenzene-d5	2.21		mg/Kg wet	3.33		66.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	30-130			
Surrogate: p-Terphenyl-d14	2.67		mg/Kg wet	3.33		80.2	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 B182856 - SW-846 3540C										
Blank (B182856-BLK1)										
Prepared: 07/30/17 Analyzed: 08/01/17										
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	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.189		mg/Kg wet	0.200		94.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.0	30-150			
LCS (B182856-BS1)										
Prepared: 07/30/17 Analyzed: 08/01/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.7	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.0	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.9	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.2	40-140			
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.203		mg/Kg wet	0.200		102	30-150			
LCS Dup (B182856-BSD1)										
Prepared: 07/30/17 Analyzed: 08/01/17										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		101	40-140	7.04	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		103	40-140	5.86	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.0	40-140	5.59	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		93.9	40-140	6.16	30	
Surrogate: Decachlorobiphenyl	0.221		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.205		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.196		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.211		mg/Kg wet	0.200		106	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 B182860 - SW-846 3546										
Blank (B182860-BLK1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.01		mg/Kg wet	3.33		90.4	50-150			
LCS (B182860-BS1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	28.4	10	mg/Kg wet	33.3		85.2	60-120			
Surrogate: o-Terphenyl	2.67		mg/Kg wet	3.33		80.2	50-150			
LCS Dup (B182860-BSD1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	26.8	10	mg/Kg wet	33.3		80.5	60-120	5.67	30	
Surrogate: o-Terphenyl	2.57		mg/Kg wet	3.33		77.1	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 B182835 - % Solids										
Duplicate (B182835-DUP3)	Source: 17G0913-01			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	94.0		% Wt		92.8			1.28	20	
Duplicate (B182835-DUP4)	Source: 17G0913-10			Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	86.0		% Wt		85.8			0.233	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B182856-BS1 Date(s) Analyzed 08/01/2017 08/01/2017

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	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B182856-BSD1 Date(s) Analyzed 08/01/2017 08/01/2017

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	0.20	
	2	0.000	-0.030	0.030	0.21	4.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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

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.

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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
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 Public 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

1760913



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

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: Malcolm Beeler

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume/Will Sirotiak

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	Matrix Code	Conc Code
1	WS-ANALYZE-SO-53-1	7/21/17	13:08		X	S	U
2	WS-ANALYZE-SO-53-2		13:09				
3	WS-ANALYZE-SO-53-3		13:10				
4	WS-ANALYZE-SO-54-1		13:17				
5	WS-ANALYZE-SO-54-2		13:18				
6	WS-ANALYZE-SO-54-3		13:19				

ANALYSIS REQUESTED

(Soxhlet) PCBs
 PAHs
 ETPH

- 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)

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

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

RELINQUISHED BY: (signature) Date/Time: 7/21/17 1405
 RECEIVED BY: (signature) Date/Time: 7/21/17 1405
 RELINQUISHED BY: (signature) Date/Time: 7:00
 RECEIVED BY: (signature) Date/Time: 7/21/17 1900
 RELINQUISHED BY: (signature) Date/Time:
 RECEIVED BY: (signature) Date/Time:

Comments:
 Please hold excess volumes for possible SPLP analyses.

RELINQUISHED BY: (signature) Date/Time:
 RECEIVED BY: (signature) Date/Time:

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1760913

Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com

Weston & Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston & Sampson)

Chris Berthiaume / Will Sirotmak

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	Matrix Code	Conc Code
7	WS-ACC5-SO-DUP-16	7/21/17		X	S	U	
8	WS-ACC12E-SO-DUP-17						
9	WS-ACCIZE-SO-DUP-18						
10	WS-ACCIZE-SO-DUP-19						

ANALYSIS REQUESTED
 (Soyhlet) PCBs
 PAHs
 ETPH

- 1 Matrix Codes:**
 GW = Ground Water
 WW = Waste Water
 DW = Drinking Water
 A = Air
 S = Soil/Solid
 SL = Sludge
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- 2 Preservation Codes:**
 I = Iced
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 B = Sodium Bisulfate
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- 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) *[Signature]* Date/Time: 7/21/17 1405
Received by: (signature) *[Signature]* Date/Time: 7/21/17 1405
Relinquished by: (signature) *[Signature]* Date/Time: 7/21/17 2200
Received by: (signature) *[Signature]* Date/Time: 7/21/17 1900
Relinquished by: (signature) *[Signature]* Date/Time:
Received by: (signature) *[Signature]* Date/Time:
Relinquished by: (signature) *[Signature]* Date/Time:
Received by: (signature) *[Signature]* Date/Time:
 Detection Limit Requirements: RES DEC
 PWSID # _____
 NELAC and AIHA-LAP, LLC Accredited

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson
 Received By JM Date 7/21/17 Time 1900

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

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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
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\A080217.SEC\A0802053.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A0802053.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	359815	380451	-5
c - 10	1.50	352547	380451	-7
c - 12	2.22	374391	380451	-2
c - 14	2.89	384612	380451	1
c - 16	3.48	394076	380451	4
c - 18	4.05	388606	380451	2
o-Terphenyl	4.36	444826	380451	
c - 20	4.67	393700	380451	3
c - 22	5.18	398363	380451	5
c - 24	5.62	371023	380451	-2
c - 26	6.01	389982	380451	3
c - 28	6.37	384491	380451	1
c - 30	6.70	383606	380451	1
c - 32	7.01	375705	380451	-1
c - 34	7.30	377889	380451	-1
c - 36	7.58	377960	380451	-1

* One compound allowed %D <= 50%

Samples

17G0683-12@20X
 17G0774-04@10X

D:\HPCHEM\1\DATA\A080217.SEC\A080293.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/2/17
 Data File Name A080293.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	363192	388257	-6
c - 10	1.49	353450	388257	-9
c - 12	2.23	378033	388257	-3
c - 14	2.89	391251	388257	1
c - 16	3.48	401490	388257	3
c - 18	4.05	397496	388257	2
o-Terphenyl	4.36	454898	388257	
c - 20	4.66	404130	388257	4
c - 22	5.18	408473	388257	5
c - 24	5.62	379630	388257	-2
c - 26	6.01	399141	388257	3
c - 28	6.37	392867	388257	1
c - 30	6.70	393552	388257	1
c - 32	7.01	386366	388257	0
c - 34	7.30	387490	388257	0
c - 36	7.58	387297	388257	0

* One compound allowed %D <= 50%

Samples

17G1059-01@5X
 17G0865-14@5X
 17G0866-14@5X
 17G1077-03
 17G1079-06
 17G1048-01@50X
 17G0911-16@20X
 17G0913-08@50X



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: 17G0913

Laboratory Sample ID(s):

Sample Date(s):

17G0913-01 thru 17G0913-10

07/21/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature:

Tod Kopyscinski

Position: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 08/08/17

Name of Laboratory: Con-Test Analytical Laboratory

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

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: 17G0987

Enclosed are results of analyses for samples received by the laboratory on July 24, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James M. Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

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: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0987

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-56-1	17G0987-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-56-2	17G0987-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-56-3	17G0987-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-57-1A	17G0987-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-57-1B	17G0987-05	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-57-2	17G0987-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-57-3	17G0987-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-31-1	17G0987-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-31-2A	17G0987-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-31-2B	17G0987-10	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-31-3	17G0987-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-31-4	17G0987-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-27-1	17G0987-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-27-2	17G0987-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-27-3	17G0987-15	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-63-1	17G0987-16	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-63-2	17G0987-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-63-3	17G0987-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-12-1	17G0987-19	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: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0987

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-12-2	17G0987-20	Soil		SM 2540G SW-846 8082A	

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.

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

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. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:**CT ETPH**

17G0987-05[WS-AOC12E-SO-57-1B], B182860-MS1, B182860-MSD1

SW-846 8082A**Qualifications:****MS-24**

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

Analyte & Samples(s) Qualified:**Aroclor-1016**

B182888-MS1, B182888-MSD1

Aroclor-1016 [2C]

B182888-MS1, B182888-MSD1

Aroclor-1260

B182888-MS1, B182888-MSD1

Aroclor-1260 [2C]

B182888-MS1, B182888-MSD1

SW-846 8270D**Qualifications:****E**

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

Analyte & Samples(s) Qualified:**Anthracene**

17G0987-10[WS-AOC12E-SO-31-2B]

Benzo(a)anthracene

17G0987-10[WS-AOC12E-SO-31-2B]

Benzo(a)pyrene

17G0987-10[WS-AOC12E-SO-31-2B]

Benzo(b)fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B]

Benzo(g,h,i)perylene

17G0987-10[WS-AOC12E-SO-31-2B]

Benzo(k)fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B]

Chrysene

17G0987-10[WS-AOC12E-SO-31-2B]

Fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B]

Indeno(1,2,3-cd)pyrene

17G0987-10[WS-AOC12E-SO-31-2B]

Phenanthrene

17G0987-10[WS-AOC12E-SO-31-2B]

Pyrene

17G0987-10[WS-AOC12E-SO-31-2B], 17G0987-10RE1[WS-AOC12E-SO-31-2B]

MS-08

Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:**Fluoranthene**

B182789-MS2

MS-11

Matrix spike 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:**Phenanthrene**

B182789-MS2

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:**2-Methylnaphthalene**

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Acenaphthene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Anthracene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(a)anthracene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(a)pyrene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(b)fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(g,h,i)perylene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(k)fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Chrysene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Dibenz(a,h)anthracene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Fluorene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Indeno(1,2,3-cd)pyrene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Naphthalene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Pyrene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

R-06

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

Analyte & Samples(s) Qualified:**2-Methylnaphthalene**

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Acenaphthene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(a)pyrene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(b)fluoranthene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Benzo(g,h,i)perylene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Dibenz(a,h)anthracene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Fluorene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

Indeno(1,2,3-cd)pyrene

17G0987-10[WS-AOC12E-SO-31-2B], B182789-MS2, B182789-MSD2

S-01

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

Analyte & Samples(s) Qualified:**2-Fluorobiphenyl**

17G0987-10RE2[WS-AOC12E-SO-31-2B]

Nitrobenzene-d5

17G0987-10RE2[WS-AOC12E-SO-31-2B]

p-Terphenyl-d1417G0987-10RE2[WS-AOC12E-SO-31-2B]

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:**Chrysene**

B182852-BLK1, B182852-BS1, B182852-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.



Daren J. Damboragian
Director of Operations

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-1

Sampled: 7/24/2017 10:20

Sample ID: 17G0987-01

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	7/31/17	8/3/17 22:22	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:22	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.3	30-150					8/3/17 22:22	
Decachlorobiphenyl [2]		90.3	30-150					8/3/17 22:22	
Tetrachloro-m-xylene [1]		95.2	30-150					8/3/17 22:22	
Tetrachloro-m-xylene [2]		89.8	30-150					8/3/17 22:22	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-1

Sampled: 7/24/2017 10:20

Sample ID: 17G0987-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-2

Sampled: 7/24/2017 10:21

Sample ID: 17G0987-02

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	7/31/17	8/3/17 22:34	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 22:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.6	30-150					8/3/17 22:34	
Decachlorobiphenyl [2]		90.9	30-150					8/3/17 22:34	
Tetrachloro-m-xylene [1]		90.2	30-150					8/3/17 22:34	
Tetrachloro-m-xylene [2]		85.7	30-150					8/3/17 22:34	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-2

Sampled: 7/24/2017 10:21

Sample ID: 17G0987-02

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	88.3		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-3

Sampled: 7/24/2017 10:22

Sample ID: 17G0987-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/4/17	8/7/17 11:36	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.0	30-150					8/7/17 11:36	
Decachlorobiphenyl [2]		92.1	30-150					8/7/17 11:36	
Tetrachloro-m-xylene [1]		96.2	30-150					8/7/17 11:36	
Tetrachloro-m-xylene [2]		94.4	30-150					8/7/17 11:36	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-56-3

Sampled: 7/24/2017 10:22

Sample ID: 17G0987-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.0		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-1A

Sampled: 7/24/2017 10:25

Sample ID: 17G0987-04

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	7/31/17	8/3/17 23:00	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:00	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.9	30-150					8/3/17 23:00	
Decachlorobiphenyl [2]		83.5	30-150					8/3/17 23:00	
Tetrachloro-m-xylene [1]		90.2	30-150					8/3/17 23:00	
Tetrachloro-m-xylene [2]		85.7	30-150					8/3/17 23:00	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-1A

Sampled: 7/24/2017 10:25

Sample ID: 17G0987-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-1B

Sampled: 7/24/2017 10:26

Sample ID: 17G0987-05

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	7/30/17	8/1/17 17:39	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/30/17	8/1/17 17:39	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		67.1	30-130					8/1/17 17:39	
2-Fluorobiphenyl		64.1	30-130					8/1/17 17:39	
p-Terphenyl-d14		60.5	30-130					8/1/17 17:39	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-1B

Sampled: 7/24/2017 10:26

Sample ID: 17G0987-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	21	11	mg/Kg dry	1	MS-07A	CTDEP ETPH	7/31/17	8/3/17 8:37	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		92.2	50-150					8/3/17 8:37	

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: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-1B

Sampled: 7/24/2017 10:26

Sample ID: 17G0987-05

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	90.6		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-2

Sampled: 7/24/2017 10:27

Sample ID: 17G0987-06

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	7/31/17	8/3/17 23:13	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:13	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		99.3	30-150					8/3/17 23:13	
Decachlorobiphenyl [2]		103	30-150					8/3/17 23:13	
Tetrachloro-m-xylene [1]		107	30-150					8/3/17 23:13	
Tetrachloro-m-xylene [2]		101	30-150					8/3/17 23:13	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-2

Sampled: 7/24/2017 10:27

Sample ID: 17G0987-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-3

Sampled: 7/24/2017 10:28

Sample ID: 17G0987-07

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	7/31/17	8/3/17 23:26	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					8/3/17 23:26	
Decachlorobiphenyl [2]		106	30-150					8/3/17 23:26	
Tetrachloro-m-xylene [1]		107	30-150					8/3/17 23:26	
Tetrachloro-m-xylene [2]		101	30-150					8/3/17 23:26	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-57-3

Sampled: 7/24/2017 10:28

Sample ID: 17G0987-07

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	83.8		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-1

Sampled: 7/24/2017 10:10

Sample ID: 17G0987-08

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	7/31/17	8/3/17 23:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1248 [2]	0.24	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Aroclor-1268 [1]	0.69	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.6	30-150					8/3/17 23:39	
Decachlorobiphenyl [2]		85.3	30-150					8/3/17 23:39	
Tetrachloro-m-xylene [1]		93.2	30-150					8/3/17 23:39	
Tetrachloro-m-xylene [2]		85.6	30-150					8/3/17 23:39	

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-1

Sampled: 7/24/2017 10:10

Sample ID: 17G0987-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.7		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2A

Sampled: 7/24/2017 10:12

Sample ID: 17G0987-09

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	7/31/17	8/3/17 23:52	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1248 [1]	0.68	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Aroclor-1268 [1]	1.1	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/3/17 23:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		86.9	30-150					8/3/17 23:52	
Decachlorobiphenyl [2]		77.1	30-150					8/3/17 23:52	
Tetrachloro-m-xylene [1]		77.0	30-150					8/3/17 23:52	
Tetrachloro-m-xylene [2]		69.8	30-150					8/3/17 23:52	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2A

Sampled: 7/24/2017 10:12

Sample ID: 17G0987-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2B

Sampled: 7/24/2017 10:14

Sample ID: 17G0987-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	4.2	0.19	mg/Kg dry	1	MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Acenaphthene	3.6	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Acenaphthene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Acenaphthylene	ND	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Acenaphthylene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Anthracene	6.2	0.19	mg/Kg dry	1	E, MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Anthracene	4.8	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Anthracene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Benzo(a)anthracene	23	0.19	mg/Kg dry	1	E, MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Benzo(a)anthracene	20	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Benzo(a)anthracene	18	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Benzo(a)pyrene	20	0.19	mg/Kg dry	1	E, MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Benzo(a)pyrene	13	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Benzo(a)pyrene	11	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Benzo(b)fluoranthene	20	0.19	mg/Kg dry	1	E, MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Benzo(b)fluoranthene	14	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Benzo(b)fluoranthene	13	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Benzo(g,h,i)perylene	11	0.19	mg/Kg dry	1	E, MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Benzo(g,h,i)perylene	9.9	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Benzo(g,h,i)perylene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Benzo(k)fluoranthene	6.6	0.19	mg/Kg dry	1	E, MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Benzo(k)fluoranthene	5.7	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Benzo(k)fluoranthene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Chrysene	28	0.19	mg/Kg dry	1	E, MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Chrysene	21	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Chrysene	19	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Dibenz(a,h)anthracene	3.1	0.19	mg/Kg dry	1	MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Dibenz(a,h)anthracene	2.5	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Dibenz(a,h)anthracene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Fluoranthene	33	0.19	mg/Kg dry	1	E	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Fluoranthene	30	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Fluoranthene	22	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Fluorene	2.9	0.19	mg/Kg dry	1	MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Fluorene	2.5	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Fluorene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Indeno(1,2,3-cd)pyrene	10	0.19	mg/Kg dry	1	E, MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Indeno(1,2,3-cd)pyrene	8.4	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Indeno(1,2,3-cd)pyrene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
2-Methylnaphthalene	2.8	0.19	mg/Kg dry	1	MS-12, R-06	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
2-Methylnaphthalene	2.5	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
2-Methylnaphthalene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Naphthalene	1.6	0.19	mg/Kg dry	1	MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Naphthalene	ND	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2B

Sampled: 7/24/2017 10:14

Sample ID: 17G0987-10

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Naphthalene	ND	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Phenanthrene	30	0.19	mg/Kg dry	1	E	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Phenanthrene	38	1.9	mg/Kg dry	10		SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Phenanthrene	30	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Pyrene	41	0.19	mg/Kg dry	1	E, MS-12	SW-846 8270D	7/28/17	8/3/17 10:13	BGL
Pyrene	62	1.9	mg/Kg dry	10	E	SW-846 8270D	7/28/17	8/3/17 11:25	BGL
Pyrene	47	9.5	mg/Kg dry	50		SW-846 8270D	7/28/17	8/3/17 11:49	BGL
Surrogates	% Recovery	Recovery Limits			Flag/Qual				
Nitrobenzene-d5	61.2	30-130						8/3/17 10:13	
Nitrobenzene-d5	57.0	30-130						8/3/17 11:25	
Nitrobenzene-d5	*	30-130			S-01			8/3/17 11:49	
2-Fluorobiphenyl	57.7	30-130						8/3/17 10:13	
2-Fluorobiphenyl	51.4	30-130						8/3/17 11:25	
2-Fluorobiphenyl	*	30-130			S-01			8/3/17 11:49	
p-Terphenyl-d14	48.6	30-130						8/3/17 10:13	
p-Terphenyl-d14	59.2	30-130						8/3/17 11:25	
p-Terphenyl-d14	*	30-130			S-01			8/3/17 11:49	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2B

Sampled: 7/24/2017 10:14

Sample ID: 17G0987-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	810	220	mg/Kg dry	20		CTDEP ETPH	7/31/17	8/3/17 10:42	SCS
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
o-Terphenyl		70.8		50-150				8/3/17 10:42	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-2B

Sampled: 7/24/2017 10:14

Sample ID: 17G0987-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-3

Sampled: 7/24/2017 10:16

Sample ID: 17G0987-11

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	7/31/17	8/4/17 0:04	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:04	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		74.6	30-150					8/4/17 0:04	
Decachlorobiphenyl [2]		72.7	30-150					8/4/17 0:04	
Tetrachloro-m-xylene [1]		78.1	30-150					8/4/17 0:04	
Tetrachloro-m-xylene [2]		78.2	30-150					8/4/17 0:04	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-3

Sampled: 7/24/2017 10:16

Sample ID: 17G0987-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-4

Sampled: 7/24/2017 10:18

Sample ID: 17G0987-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1248 [1]	0.42	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Aroclor-1268 [1]	0.19	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 0:56	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.0	30-150					8/4/17 0:56	
Decachlorobiphenyl [2]		92.1	30-150					8/4/17 0:56	
Tetrachloro-m-xylene [1]		81.6	30-150					8/4/17 0:56	
Tetrachloro-m-xylene [2]		73.5	30-150					8/4/17 0:56	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-31-4

Sampled: 7/24/2017 10:18

Sample ID: 17G0987-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-1

Sampled: 7/24/2017 10:28

Sample ID: 17G0987-13

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	7/31/17	8/4/17 1:09	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:09	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.0	30-150					8/4/17 1:09	
Decachlorobiphenyl [2]		83.0	30-150					8/4/17 1:09	
Tetrachloro-m-xylene [1]		101	30-150					8/4/17 1:09	
Tetrachloro-m-xylene [2]		97.1	30-150					8/4/17 1:09	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-1

Sampled: 7/24/2017 10:28

Sample ID: 17G0987-13

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	93.2		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-2

Sampled: 7/24/2017 10:30

Sample ID: 17G0987-14

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	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:22	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		80.5	30-150					8/4/17 1:22	
Decachlorobiphenyl [2]		79.2	30-150					8/4/17 1:22	
Tetrachloro-m-xylene [1]		89.7	30-150					8/4/17 1:22	
Tetrachloro-m-xylene [2]		86.5	30-150					8/4/17 1:22	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-2

Sampled: 7/24/2017 10:30

Sample ID: 17G0987-14

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	90.3		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-3

Sampled: 7/24/2017 10:32

Sample ID: 17G0987-15

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	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:34	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		81.4	30-150					8/4/17 1:34	
Decachlorobiphenyl [2]		82.9	30-150					8/4/17 1:34	
Tetrachloro-m-xylene [1]		91.2	30-150					8/4/17 1:34	
Tetrachloro-m-xylene [2]		87.9	30-150					8/4/17 1:34	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-27-3

Sampled: 7/24/2017 10:32

Sample ID: 17G0987-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-1

Sampled: 7/24/2017 12:00

Sample ID: 17G0987-16

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	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 1:47	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.0	30-150					8/4/17 1:47	
Decachlorobiphenyl [2]		86.8	30-150					8/4/17 1:47	
Tetrachloro-m-xylene [1]		104	30-150					8/4/17 1:47	
Tetrachloro-m-xylene [2]		100	30-150					8/4/17 1:47	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-1

Sampled: 7/24/2017 12:00

Sample ID: 17G0987-16

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	70.7		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-2

Sampled: 7/24/2017 12:01

Sample ID: 17G0987-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:00	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.6	30-150					8/4/17 2:00	
Decachlorobiphenyl [2]		86.3	30-150					8/4/17 2:00	
Tetrachloro-m-xylene [1]		101	30-150					8/4/17 2:00	
Tetrachloro-m-xylene [2]		98.8	30-150					8/4/17 2:00	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-2

Sampled: 7/24/2017 12:01

Sample ID: 17G0987-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-3

Sampled: 7/24/2017 12:02

Sample ID: 17G0987-18

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	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:13	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.8	30-150					8/4/17 2:13	
Decachlorobiphenyl [2]		90.9	30-150					8/4/17 2:13	
Tetrachloro-m-xylene [1]		104	30-150					8/4/17 2:13	
Tetrachloro-m-xylene [2]		101	30-150					8/4/17 2:13	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-63-3

Sampled: 7/24/2017 12:02

Sample ID: 17G0987-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.6		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-1

Sampled: 7/24/2017 12:03

Sample ID: 17G0987-19

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	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		96.9	30-150					8/4/17 2:26	
Decachlorobiphenyl [2]		94.7	30-150					8/4/17 2:26	
Tetrachloro-m-xylene [1]		108	30-150					8/4/17 2:26	
Tetrachloro-m-xylene [2]		104	30-150					8/4/17 2:26	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-1

Sampled: 7/24/2017 12:03

Sample ID: 17G0987-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-2

Sampled: 7/24/2017 12:04

Sample ID: 17G0987-20

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	7/31/17	8/4/17 2:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/4/17 2:39	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.8	30-150					8/4/17 2:39	
Decachlorobiphenyl [2]		87.9	30-150					8/4/17 2:39	
Tetrachloro-m-xylene [1]		99.0	30-150					8/4/17 2:39	
Tetrachloro-m-xylene [2]		96.9	30-150					8/4/17 2:39	

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

Sample Description:

Work Order: 17G0987

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-2

Sampled: 7/24/2017 12:04

Sample ID: 17G0987-20

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	87.3		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0987-05 [WS-AOC12E-SO-57-1B]	B182860	30.0	1.00	07/31/17
17G0987-10 [WS-AOC12E-SO-31-2B]	B182860	30.0	1.00	07/31/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0987-01 [WS-AOC12E-SO-56-1]	B182839	07/29/17
17G0987-02 [WS-AOC12E-SO-56-2]	B182839	07/29/17
17G0987-03 [WS-AOC12E-SO-56-3]	B182839	07/29/17
17G0987-04 [WS-AOC12E-SO-57-1A]	B182839	07/29/17
17G0987-05 [WS-AOC12E-SO-57-1B]	B182839	07/29/17
17G0987-06 [WS-AOC12E-SO-57-2]	B182839	07/29/17
17G0987-07 [WS-AOC12E-SO-57-3]	B182839	07/29/17
17G0987-08 [WS-AOC12E-SO-31-1]	B182839	07/29/17
17G0987-09 [WS-AOC12E-SO-31-2A]	B182839	07/29/17
17G0987-10 [WS-AOC12E-SO-31-2B]	B182839	07/29/17
17G0987-11 [WS-AOC12E-SO-31-3]	B182839	07/29/17
17G0987-12 [WS-AOC12E-SO-31-4]	B182839	07/29/17
17G0987-13 [WS-AOC12E-SO-27-1]	B182839	07/29/17
17G0987-14 [WS-AOC12E-SO-27-2]	B182839	07/29/17
17G0987-15 [WS-AOC12E-SO-27-3]	B182839	07/29/17
17G0987-16 [WS-AOC12E-SO-63-1]	B182839	07/29/17
17G0987-17 [WS-AOC12E-SO-63-2]	B182839	07/29/17
17G0987-18 [WS-AOC12E-SO-63-3]	B182839	07/29/17
17G0987-19 [WS-AOC12E-SO-12-1]	B182839	07/29/17
17G0987-20 [WS-AOC12E-SO-12-2]	B182839	07/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0987-01 [WS-AOC12E-SO-56-1]	B182888	10.0	10.0	07/31/17
17G0987-02 [WS-AOC12E-SO-56-2]	B182888	10.0	10.0	07/31/17
17G0987-04 [WS-AOC12E-SO-57-1A]	B182888	10.0	10.0	07/31/17
17G0987-06 [WS-AOC12E-SO-57-2]	B182888	10.0	10.0	07/31/17
17G0987-07 [WS-AOC12E-SO-57-3]	B182888	10.0	10.0	07/31/17
17G0987-08 [WS-AOC12E-SO-31-1]	B182888	10.0	10.0	07/31/17
17G0987-09 [WS-AOC12E-SO-31-2A]	B182888	10.0	10.0	07/31/17
17G0987-11 [WS-AOC12E-SO-31-3]	B182888	10.0	10.0	07/31/17
17G0987-12 [WS-AOC12E-SO-31-4]	B182888	10.0	10.0	07/31/17
17G0987-13 [WS-AOC12E-SO-27-1]	B182888	10.0	10.0	07/31/17
17G0987-14 [WS-AOC12E-SO-27-2]	B182888	10.0	10.0	07/31/17
17G0987-15 [WS-AOC12E-SO-27-3]	B182888	10.0	10.0	07/31/17
17G0987-16 [WS-AOC12E-SO-63-1]	B182888	10.0	10.0	07/31/17
17G0987-17 [WS-AOC12E-SO-63-2]	B182888	10.0	10.0	07/31/17
17G0987-18 [WS-AOC12E-SO-63-3]	B182888	10.0	10.0	07/31/17
17G0987-19 [WS-AOC12E-SO-12-1]	B182888	10.0	10.0	07/31/17
17G0987-20 [WS-AOC12E-SO-12-2]	B182888	10.0	10.0	07/31/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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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
17G0987-03RE1 [WS-AOC12E-SO-56-3]	B183336	10.0	10.0	08/04/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0987-10 [WS-AOC12E-SO-31-2B]	B182789	30.0	1.00	07/28/17
17G0987-10RE1 [WS-AOC12E-SO-31-2B]	B182789	30.0	1.00	07/28/17
17G0987-10RE2 [WS-AOC12E-SO-31-2B]	B182789	30.0	1.00	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0987-05 [WS-AOC12E-SO-57-1B]	B182852	30.3	1.00	07/30/17

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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
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Batch B182789 - SW-846 3546

Blank (B182789-BLK1)

Prepared: 07/28/17 Analyzed: 08/01/17

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	2.37		mg/Kg wet	3.33		71.0	30-130			
Surrogate: 2-Fluorobiphenyl	2.44		mg/Kg wet	3.33		73.1	30-130			
Surrogate: p-Terphenyl-d14	3.22		mg/Kg wet	3.33		96.5	30-130			

LCS (B182789-BS1)

Prepared: 07/28/17 Analyzed: 08/01/17

Acenaphthene	1.11	0.17	mg/Kg wet	1.67		66.9	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.3	40-140			
Benzo(a)anthracene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140			
Benzo(a)pyrene	1.33	0.17	mg/Kg wet	1.67		79.5	40-140			
Benzo(b)fluoranthene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140			
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140			
Benzo(k)fluoranthene	1.27	0.17	mg/Kg wet	1.67		76.1	40-140			
Chrysene	1.26	0.17	mg/Kg wet	1.67		75.7	40-140			
Dibenz(a,h)anthracene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Fluorene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.10	0.17	mg/Kg wet	1.67		66.1	40-140			
Naphthalene	0.998	0.17	mg/Kg wet	1.67		59.9	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Surrogate: Nitrobenzene-d5	2.49		mg/Kg wet	3.33		74.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.62		mg/Kg wet	3.33		78.6	30-130			
Surrogate: p-Terphenyl-d14	3.16		mg/Kg wet	3.33		94.9	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 B182789 - SW-846 3546										
LCS Dup (B182789-BSD1)										
					Prepared: 07/28/17 Analyzed: 08/01/17					
Acenaphthene	0.948	0.17	mg/Kg wet	1.67		56.9	40-140	16.1	30	
Acenaphthylene	0.955	0.17	mg/Kg wet	1.67		57.3	40-140	14.7	30	
Anthracene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	17.2	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.1	40-140	16.1	30	
Benzo(a)pyrene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140	17.9	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	19.7	30	
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.5	40-140	19.5	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	19.4	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	16.9	30	
Dibenz(a,h)anthracene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	18.2	30	
Fluoranthene	0.928	0.17	mg/Kg wet	1.67		55.7	40-140	17.2	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.6	40-140	17.0	30	
Indeno(1,2,3-cd)pyrene	0.962	0.17	mg/Kg wet	1.67		57.7	40-140	27.1	30	
2-Methylnaphthalene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	10.4	30	
Naphthalene	0.895	0.17	mg/Kg wet	1.67		53.7	40-140	11.0	30	
Phenanthrene	1.05	0.17	mg/Kg wet	1.67		63.2	40-140	17.2	30	
Pyrene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140	16.6	30	
Surrogate: Nitrobenzene-d5	2.27		mg/Kg wet	3.33		66.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.27		mg/Kg wet	3.33		68.0	30-130			
Surrogate: p-Terphenyl-d14	2.67		mg/Kg wet	3.33		80.2	30-130			
Matrix Spike (B182789-MS2)										
			Source: 17G0987-10		Prepared: 07/28/17 Analyzed: 08/03/17					
Acenaphthene	18.5	0.19	mg/Kg dry	1.86	4.25	764	* 40-140			MS-12, R-06
Acenaphthylene	1.52	0.19	mg/Kg dry	1.86	0.174	72.3	40-140			
Anthracene	12.1	0.19	mg/Kg dry	1.86	6.19	317	* 40-140			MS-12
Benzo(a)anthracene	36.5	0.19	mg/Kg dry	1.86	22.8	737	* 40-140			MS-12
Benzo(a)pyrene	54.3	0.19	mg/Kg dry	1.86	19.8	1850	* 40-140			MS-12, R-06
Benzo(b)fluoranthene	56.8	0.19	mg/Kg dry	1.86	20.3	1960	* 40-140			MS-12, R-06
Benzo(g,h,i)perylene	19.1	0.19	mg/Kg dry	1.86	10.6	456	* 40-140			MS-12, R-06
Benzo(k)fluoranthene	18.2	0.19	mg/Kg dry	1.86	6.63	621	* 40-140			MS-12
Chrysene	40.4	0.19	mg/Kg dry	1.86	28.1	659	* 40-140			MS-12
Dibenz(a,h)anthracene	9.26	0.19	mg/Kg dry	1.86	3.13	329	* 40-140			MS-12, R-06
Fluoranthene	32.3	0.19	mg/Kg dry	1.86	33.0	-38.3	* 40-140			MS-08
Fluorene	13.6	0.19	mg/Kg dry	1.86	2.92	571	* 40-140			MS-12, R-06
Indeno(1,2,3-cd)pyrene	20.3	0.19	mg/Kg dry	1.86	9.99	556	* 40-140			MS-12, R-06
2-Methylnaphthalene	12.1	0.19	mg/Kg dry	1.86	2.77	501	* 40-140			MS-12, R-06
Naphthalene	5.86	0.19	mg/Kg dry	1.86	1.56	231	* 40-140			MS-12
Phenanthrene	33.4	0.19	mg/Kg dry	1.86	29.8	190	* 40-140			MS-11
Pyrene	38.3	0.19	mg/Kg dry	1.86	40.8	-137	* 40-140			MS-12
Surrogate: Nitrobenzene-d5	2.48		mg/Kg dry	3.72		66.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.45		mg/Kg dry	3.72		65.8	30-130			
Surrogate: p-Terphenyl-d14	1.73		mg/Kg dry	3.72		46.5	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 B182789 - SW-846 3546										
Matrix Spike Dup (B182789-MSD2)	Source: 17G0987-10			Prepared: 07/28/17 Analyzed: 08/03/17						
Acenaphthene	11.5	0.19	mg/Kg dry	1.86	4.25	387	* 40-140	46.9	* 30	MS-12, R-06
Acenaphthylene	1.54	0.19	mg/Kg dry	1.86	0.174	73.1	40-140	0.999	30	
Anthracene	11.9	0.19	mg/Kg dry	1.86	6.19	309	* 40-140	1.15	30	MS-12
Benzo(a)anthracene	31.7	0.19	mg/Kg dry	1.86	22.8	478	* 40-140	14.1	30	MS-12
Benzo(a)pyrene	36.5	0.19	mg/Kg dry	1.86	19.8	894	* 40-140	39.3	* 30	MS-12, R-06
Benzo(b)fluoranthene	37.9	0.19	mg/Kg dry	1.86	20.3	948	* 40-140	39.8	* 30	MS-12, R-06
Benzo(g,h,i)perylene	13.9	0.19	mg/Kg dry	1.86	10.6	176	* 40-140	31.7	* 30	MS-12, R-06
Benzo(k)fluoranthene	14.5	0.19	mg/Kg dry	1.86	6.63	423	* 40-140	22.6	30	MS-12
Chrysene	36.9	0.19	mg/Kg dry	1.86	28.1	470	* 40-140	9.11	30	MS-12
Dibenz(a,h)anthracene	6.78	0.19	mg/Kg dry	1.86	3.13	196	* 40-140	31.0	* 30	MS-12, R-06
Fluoranthene	33.8	0.19	mg/Kg dry	1.86	33.0	44.4	40-140	4.66	30	
Fluorene	8.32	0.19	mg/Kg dry	1.86	2.92	290	* 40-140	47.9	* 30	MS-12, R-06
Indeno(1,2,3-cd)pyrene	14.5	0.19	mg/Kg dry	1.86	9.99	244	* 40-140	33.3	* 30	MS-12, R-06
2-Methylnaphthalene	8.59	0.19	mg/Kg dry	1.86	2.77	313	* 40-140	33.9	* 30	R-06, MS-12
Naphthalene	4.91	0.19	mg/Kg dry	1.86	1.56	180	* 40-140	17.8	30	MS-12
Phenanthrene	32.4	0.19	mg/Kg dry	1.86	29.8	138	40-140	2.93	30	
Pyrene	40.0	0.19	mg/Kg dry	1.86	40.8	-46.0	* 40-140	4.34	30	MS-12
Surrogate: Nitrobenzene-d5	2.89		mg/Kg dry	3.72			77.7	30-130		
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg dry	3.72			76.0	30-130		
Surrogate: p-Terphenyl-d14	2.09		mg/Kg dry	3.72			56.1	30-130		

Batch B182852 - SW-846 3546

Blank (B182852-BLK1)	Prepared: 07/30/17 Analyzed: 08/01/17									
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							V-05
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	2.54		mg/Kg wet	3.33			76.3	30-130		
Surrogate: 2-Fluorobiphenyl	2.57		mg/Kg wet	3.33			77.0	30-130		
Surrogate: p-Terphenyl-d14	2.69		mg/Kg wet	3.33			80.7	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 B182852 - SW-846 3546										
LCS (B182852-BS1)										
					Prepared: 07/30/17 Analyzed: 08/01/17					
Acenaphthene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Acenaphthylene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Anthracene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(a)anthracene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140			
Benzo(a)pyrene	1.17	0.17	mg/Kg wet	1.67		70.1	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(g,h,i)perylene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140			
Benzo(k)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			
Chrysene	0.987	0.17	mg/Kg wet	1.67		59.2	40-140			V-05
Dibenz(a,h)anthracene	1.02	0.17	mg/Kg wet	1.67		61.4	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Indeno(1,2,3-cd)pyrene	1.07	0.17	mg/Kg wet	1.67		64.1	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		72.3	40-140			
Naphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Phenanthrene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Pyrene	1.08	0.17	mg/Kg wet	1.67		64.6	40-140			
Surrogate: Nitrobenzene-d5	2.69		mg/Kg wet	3.33		80.7	30-130			
Surrogate: 2-Fluorobiphenyl	2.49		mg/Kg wet	3.33		74.7	30-130			
Surrogate: p-Terphenyl-d14	2.37		mg/Kg wet	3.33		71.2	30-130			
LCS Dup (B182852-BSD1)										
					Prepared: 07/30/17 Analyzed: 08/01/17					
Acenaphthene	1.21	0.17	mg/Kg wet	1.67		72.9	40-140	7.07	30	
Acenaphthylene	1.16	0.17	mg/Kg wet	1.67		69.3	40-140	5.82	30	
Anthracene	1.20	0.17	mg/Kg wet	1.67		71.9	40-140	7.95	30	
Benzo(a)anthracene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	8.21	30	
Benzo(a)pyrene	1.28	0.17	mg/Kg wet	1.67		77.0	40-140	9.46	30	
Benzo(b)fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	2.04	30	
Benzo(g,h,i)perylene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	9.70	30	
Benzo(k)fluoranthene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140	13.5	30	
Chrysene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.98	30	V-05
Dibenz(a,h)anthracene	1.15	0.17	mg/Kg wet	1.67		68.7	40-140	11.2	30	
Fluoranthene	1.19	0.17	mg/Kg wet	1.67		71.2	40-140	8.18	30	
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140	4.97	30	
Indeno(1,2,3-cd)pyrene	1.12	0.17	mg/Kg wet	1.67		67.5	40-140	5.20	30	
2-Methylnaphthalene	1.27	0.17	mg/Kg wet	1.67		76.3	40-140	5.49	30	
Naphthalene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140	6.60	30	
Phenanthrene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	7.22	30	
Pyrene	1.15	0.17	mg/Kg wet	1.67		69.0	40-140	6.59	30	
Surrogate: Nitrobenzene-d5	2.69		mg/Kg wet	3.33		80.6	30-130			
Surrogate: 2-Fluorobiphenyl	2.53		mg/Kg wet	3.33		75.8	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 B182888 - SW-846 3540C										
Blank (B182888-BLK1)										
Prepared: 07/31/17 Analyzed: 08/03/17										
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	0.179		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.181		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Tetrachloro-m-xylene	0.163		mg/Kg wet	0.200		81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.2	30-150			
LCS (B182888-BS1)										
Prepared: 07/31/17 Analyzed: 08/03/17										
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.7	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.4	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		96.3	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		89.8	40-140			
Surrogate: Decachlorobiphenyl	0.205		mg/Kg wet	0.200		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg wet	0.200		97.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.0	30-150			
LCS Dup (B182888-BSD1)										
Prepared: 07/31/17 Analyzed: 08/03/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		95.2	40-140	3.59	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.5	40-140	2.19	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		92.8	40-140	3.72	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		86.2	40-140	4.08	30	
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		97.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.193		mg/Kg wet	0.200		96.4	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 B182888 - SW-846 3540C										
Matrix Spike (B182888-MS1)										
		Source: 17G0987-09			Prepared: 07/31/17 Analyzed: 08/04/17					
Aroclor-1016	0.95	0.11	mg/Kg dry	0.213	ND	447 *	40-140			MS-24
Aroclor-1016 [2C]	0.84	0.11	mg/Kg dry	0.213	ND	395 *	40-140			MS-24
Aroclor-1260	1.5	0.11	mg/Kg dry	0.213	ND	720 *	40-140			MS-24
Aroclor-1260 [2C]	1.2	0.11	mg/Kg dry	0.213	ND	563 *	40-140			MS-24
Surrogate: Decachlorobiphenyl	0.293		mg/Kg dry	0.213			138	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.265		mg/Kg dry	0.213			125	30-150		
Surrogate: Tetrachloro-m-xylene	0.221		mg/Kg dry	0.213			104	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.193		mg/Kg dry	0.213			90.7	30-150		
Matrix Spike Dup (B182888-MSD1)										
		Source: 17G0987-09			Prepared: 07/31/17 Analyzed: 08/04/17					
Aroclor-1016	0.82	0.11	mg/Kg dry	0.213	ND	386 *	40-140	14.6	50	MS-24
Aroclor-1016 [2C]	0.76	0.11	mg/Kg dry	0.213	ND	357 *	40-140	10.1	50	MS-24
Aroclor-1260	0.61	0.11	mg/Kg dry	0.213	ND	287 *	40-140	85.9 *	50	MS-24
Aroclor-1260 [2C]	0.49	0.11	mg/Kg dry	0.213	ND	230 *	40-140	84.0 *	50	MS-24
Surrogate: Decachlorobiphenyl	0.207		mg/Kg dry	0.213			97.5	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.193		mg/Kg dry	0.213			90.8	30-150		
Surrogate: Tetrachloro-m-xylene	0.194		mg/Kg dry	0.213			91.2	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.169		mg/Kg dry	0.213			79.7	30-150		
Batch B183336 - SW-846 3540C										
Blank (B183336-BLK1)										
		Prepared: 08/04/17 Analyzed: 08/07/17								
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.232		mg/Kg wet	0.200			116	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.204		mg/Kg wet	0.200			102	30-150		
Surrogate: Tetrachloro-m-xylene	0.205		mg/Kg wet	0.200			103	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.191		mg/Kg wet	0.200			95.5	30-150		

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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
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Batch B183336 - SW-846 3540C

LCS (B183336-BS1)

Prepared: 08/04/17 Analyzed: 08/07/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.2	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.2	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.9	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.3	40-140			
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.166		mg/Kg wet	0.200		82.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		81.0	30-150			

LCS Dup (B183336-BSD1)

Prepared: 08/04/17 Analyzed: 08/07/17

Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	1.44	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.7	40-140	0.632	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.2	40-140	2.14	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	1.57	30	
Surrogate: Decachlorobiphenyl	0.184		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.200		81.6	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182860 - SW-846 3546										
Blank (B182860-BLK1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	3.01		mg/Kg wet	3.33		90.4	50-150			
LCS (B182860-BS1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	28.4	10	mg/Kg wet	33.3		85.2	60-120			
Surrogate: o-Terphenyl	2.67		mg/Kg wet	3.33		80.2	50-150			
LCS Dup (B182860-BSD1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	26.8	10	mg/Kg wet	33.3		80.5	60-120	5.67	30	
Surrogate: o-Terphenyl	2.57		mg/Kg wet	3.33		77.1	50-150			
Matrix Spike (B182860-MS1)										
			Source: 17G0987-05		Prepared: 07/31/17 Analyzed: 08/03/17					
CT ETPH	33.6	11	mg/Kg dry	36.8	21.1	34.0	* 50-150			MS-07A
Surrogate: o-Terphenyl	2.64		mg/Kg dry	3.68		71.7	50-150			
Matrix Spike Dup (B182860-MSD1)										
			Source: 17G0987-05		Prepared: 07/31/17 Analyzed: 08/03/17					
CT ETPH	35.6	11	mg/Kg dry	36.8	21.1	39.3	* 50-150	5.62	30	MS-07A
Surrogate: o-Terphenyl	3.09		mg/Kg dry	3.68		84.0	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 B182839 - % Solids										
Duplicate (B182839-DUP3)										
		Source: 17G0987-01		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	91.0		% Wt		91.5			0.548	20	
Duplicate (B182839-DUP4)										
		Source: 17G0987-09		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	94.4		% Wt		94.1			0.318	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12E-SO-31-1

SW-846 8082A

Lab Sample ID: 17G0987-08 Date(s) Analyzed 08/03/2017 08/03/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.24	4.3
Aroclor-1268	1	0.000	-0.030	0.030	0.69	
	2	0.000	-0.030	0.030	0.57	19.0

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12E-SO-31-2A

SW-846 8082A

Lab Sample ID: 17G0987-09 Date(s) Analyzed 08/03/2017 08/03/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.68	
	2	0.000	-0.030	0.030	0.53	24.8
Aroclor-1268	1	0.000	-0.030	0.030	1.1	
	2	0.000	-0.030	0.030	0.82	29.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12E-SO-31-4

SW-846 8082A

Lab Sample ID: 17G0987-12 Date(s) Analyzed 08/04/2017 08/04/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1248	1	0.000	-0.030	0.030	0.42	
	2	0.000	-0.030	0.030	0.36	15.4
Aroclor-1268	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B182888-BS1 Date(s) Analyzed 08/03/2017 08/03/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4



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**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B182888-BSD1 Date(s) Analyzed 08/03/2017 08/03/2017
 Instrument ID (1): ECD3 Instrument ID (2): ECD3
 GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	11.1

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

Matrix Spike

Lab Sample ID: B182888-MS1 Date(s) Analyzed 08/04/2017 08/04/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.95	
	2	0.000	-0.030	0.030	0.84	12.3
Aroclor-1260	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.2	22.2

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

Matrix Spike Dup

SW-846 8082A

Lab Sample ID: B182888-MSD1 Date(s) Analyzed 08/04/2017 08/04/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.82	
	2	0.000	-0.030	0.030	0.76	7.6
Aroclor-1260	1	0.000	-0.030	0.030	0.61	
	2	0.000	-0.030	0.030	0.49	21.8

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B183336-BS1 Date(s) Analyzed 08/07/2017 08/07/2017

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	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.16	11.8
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**
SW-846 8082A

LCS Dup

Lab Sample ID: B183336-BSD1 Date(s) Analyzed 08/07/2017 08/07/2017

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	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

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-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possibility of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
MS-08	Matrix spike recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.
MS-11	Matrix spike 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.
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.
MS-24	Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.
R-06	Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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
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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8270D in Water</i>	
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 Public 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

CHAIN OF CUSTODY RECORD

Phone: 413-525-2332
Fax: 413-525-6405



Company Name: Contest Labs
Address: 273 Dividend Rd Rocky Hill, CT 860 513-1473
Project Name: English Station
Project Location: 510 Grand Ave, New Haven, CT
Project Number: 2170495
Project Manager: Malcolm Beeler

Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume / Will Sirotnak

Requested Turnaround Time:
7-Day 10-Day
Other: 5-Day
Rush Approval Required:
1-Day 3-Day
2-Day 4-Day
Data Delivery:
Format: PDF EXCEL
Other:
Enhanced Data Package Required:
Email To: beelerm@wseinc.com
Fax To #:

Con-Test Work Order #	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
1	WS-AOC12E-SO-S6-1	7/24/17	1020		X	S	U
2	WS-AOC12E-SO-S6-2		1021				
3	WS-AOC12E-SO-S6-3		1022				
4	WS-AOC12E-SO-S7-1A		1025				
5	WS-AOC12E-SO-S7-1B		1026				
6	WS-AOC12E-SO-S7-2		1027				
7	WS-AOC12E-SO-S7-3		1028				
8	WS-AOC12E-SO-31-1		1010				
9	WS-AOC12E-SO-31-2A (MS/MSD)		1012				
10	WS-AOC12E-SO-31-2B (MS/MSD)		1014				

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

Detection Limit Requirements

Retrieved by: (signature)	Date/Time
<i>[Signature]</i>	7/24/17 15:25
Received by: (signature)	Date/Time
<i>[Signature]</i>	7/24/17 15:05
Retrieved by: (signature)	Date/Time
<i>[Signature]</i>	7/24/17 6:10
Received by: (signature)	Date/Time
<i>[Signature]</i>	7/24/17 15:15
Retrieved by: (signature)	Date/Time
<i>[Signature]</i>	
Received by: (signature)	Date/Time
<i>[Signature]</i>	

Program Information

- MCP Analytical Certification Form Required
- RCP Analytical 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

of Containers: _____
 2 Preservation Code: _____
 3 Container Code: _____
Dissolved Metals Samples:
 Field Filtered
 Lab to Filter
Orthoarsenate 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:**
 1 = 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) _____

ANALYSIS REQUESTED

Analysis	1020	1021	1022	1025	1026	1027	1028	1010	1012	1014
PAH										
STPH										
(Soil) PCB	X	X	X	X	X	X	X	X	X	X

1760987



Phone: 413-525-2332
Fax: 413-525-6405

Email: info@contestlabs.com
Weston & Sampson Engineers
273 Dividend Rd Rocky Hill, CT
860 513-1473
English Station
510 Grand Ave, New Haven, CT
2170495
Malcolm Beeler
Malcolm Beeler (Weston & Sampson)
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: bee@wseinc.com
Fax To #:

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-AOC12E-31-3	7/24/17	10/16	X	X	S	
12	WS-AOC12E-31-4		10/18				
13	WS-AOC12E-27-1		10/18				
14	WS-AOC12E-50-27-2		10/30				
15	WS-AOC12E-50-27-3		10/30				
16	WS-AOC12E-50-63-1		1700				
17	WS-AOC12E-50-63-2		1701				
18	WS-AOC12E-50-63-3		1702				
19	WS-AOC12E-50-72-1		12:03				
20	WS-AOC12E-50-12-2		12:04				

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:
<i>[Signature]</i>	1525
<i>[Signature]</i>	7/24/17
<i>[Signature]</i>	7/24/17 1525
<i>[Signature]</i>	7/24/17 6:05
<i>[Signature]</i>	7/24/17 1805

Relinquished by: (signature)	Date/Time:
<i>[Signature]</i>	RES DEC

Program Information
 MCP Analytical Certification Form Required
 RCP Analysis Certification Form Required
 MA State DW Form Required
 PWSID # _____
 NELAC and AIHA-LAP, LLC Accredited

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)

ANALYSIS REQUESTED

PCBs (soaked)

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

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson
 Received By JM Date 7/24/17 Time 1815
 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 - 3.5
 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 T JM
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? N/A Acid _____ Base _____

Vials	#	Containers:	#	#	#
Unp-		1 Liter Amb.		1 Liter Plastic	16 oz Amb.
HCL-		500 mL Amb.		500 mL Plastic	8oz Amb/Clear
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\A072717\A0727054.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 7/27/17
 Data File Name A0727054.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	%D +/- 20
c - 9	1.08	436313	500317	-13
c - 10	1.43	444080	500317	-11
c - 12	2.16	476291	500317	-5
c - 14	2.84	498291	500317	0
c - 16	3.44	515196	500317	3
c - 18	4.02	514418	500317	3
o-Terphenyl	4.31	599860	500317	
c - 20	4.63	526464	500317	5
c - 22	5.15	537038	500317	7
c - 24	5.60	502378	500317	0
c - 26	6.00	531040	500317	6
c - 28	6.36	525856	500317	5
c - 30	6.70	515866	500317	3
c - 32	7.01	495892	500317	-1
c - 34	7.30	493165	500317	-1
c - 36	7.58	492469	500317	-2

* One compound allowed %D <= 50%

Samples

17G0887-01
 17G0887-03
 17G0887-05
 17G0888-01
 17G0888-02
 17G0888-03
 17G0888-06
 17G0888-07
 17G0888-08
 17G0944-05
 17G0944-06
 17G0944-07
 17G0869-14
 17G0869-15
 17G0987-01

D:\HPCHEM\1\DATA\A072717\A0727112.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 7/28/17
 Data File Name A0727112.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.08	436638	495838	-12
c - 10	1.43	438494	495838	-12
c - 12	2.17	471778	495838	-5
c - 14	2.84	490965	495838	-1
c - 16	3.44	507206	495838	2
c - 18	4.02	506921	495838	2
o-Terphenyl	4.31	567249	495838	
c - 20	4.64	519308	495838	5
c - 22	5.16	529771	495838	7
c - 24	5.60	497287	495838	0
c - 26	6.00	527041	495838	6
c - 28	6.36	523537	495838	6
c - 30	6.70	515875	495838	4
c - 32	7.01	495735	495838	0
c - 34	7.30	490440	495838	-1
c - 36	7.58	486576	495838	-2

* One compound allowed %D <= 50%

Samples

17G0888-04
 17G0888-05
 17G0869-16
 17G0872-05@20X
 17G0872-06@500X
 17G0872-07@10X
 17G0872-07@10X
 17G0872-14@100X
 17G0872-20@20X
 17G0872-23@20X

D:\HPCHEM\1\DATA\A080217\A0802162.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802162.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	523131	577439	-9
c - 10	1.42	531381	577439	-8
c - 12	2.16	556433	577439	-4
c - 14	2.83	572680	577439	-1
c - 16	3.43	587452	577439	2
c - 18	4.02	583468	577439	1
o-Terphenyl	4.30	646130	577439	
c - 20	4.63	598938	577439	4
c - 22	5.15	612203	577439	6
c - 24	5.60	573363	577439	-1
c - 26	5.99	607933	577439	5
c - 28	6.36	600085	577439	4
c - 30	6.69	590931	577439	2
c - 32	7.00	572798	577439	-1
c - 34	7.30	575085	577439	0
c - 36	7.58	575697	577439	0

* One compound allowed %D <= 50%

Samples

17G0987-05
 17G0911-18@5X
 17G0932-04
 17G1079-01@10X
 17G1079-13@10X
 17G0911-19@5X
 17G0774-19@10X
 17G0911-06@5X

D:\HPCHEM1\DATA\A080217.SEC\A0802163.D

CT ETPH DISCRIMINATION CHECK

Date Acquired 8/3/17
 Data File Name A0802163.D
 Sample Name ETPH 1500
 Instrument Name 5890DFID

Compound	Ret Time	Target Response	Average Response	">%D +/- 20
c - 9	1.14	485956	520304	-7
c - 10	1.49	494533	520304	-5
c - 12	2.22	520225	520304	0
c - 14	2.88	533472	520304	3
c - 16	3.47	543057	520304	4
c - 18	4.05	534620	520304	3
o-Terphenyl	4.35	588486	520304	
c - 20	4.66	539844	520304	4
c - 22	5.17	544014	520304	5
c - 24	5.61	505579	520304	-3
c - 26	6.01	530071	520304	2
c - 28	6.36	522013	520304	0
c - 30	6.70	517402	520304	-1
c - 32	7.00	506029	520304	-3
c - 34	7.29	512021	520304	-2
c - 36	7.57	515727	520304	-1

* One compound allowed %D <= 50%

Samples

17G0987-10@20X
 17G1077-14@10X
 17G1077-17@10X
 17G0868-02@200X
 17G0868-07@200X
 17G1079-09@5X
 17G1051-01@20X



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0987

Laboratory Sample ID(s):

Sample Date(s):

17G0987-01 thru 17G0987-20

07/24/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 08/07/17

Name of Laboratory: Con-Test Analytical Laboratory

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

July 31, 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: 17G0989

Enclosed are results of analyses for samples received by the laboratory on July 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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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: 7/31/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0989

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-12-3	17G0989-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-59-1	17G0989-02	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-59-2	17G0989-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-59-3	17G0989-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-64-1	17G0989-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-64-2	17G0989-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-64-3	17G0989-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-DUP-20	17G0989-08	Soil		SM 2540G SW-846 8082A	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-3

Sampled: 7/24/2017 12:05

Sample ID: 17G0989-01

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	7/25/17	7/28/17 7:33	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1260 [2]	0.20	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Aroclor-1268 [2]	0.19	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:33	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.8	30-150					7/28/17 7:33	
Decachlorobiphenyl [2]		103	30-150					7/28/17 7:33	
Tetrachloro-m-xylene [1]		90.3	30-150					7/28/17 7:33	
Tetrachloro-m-xylene [2]		91.8	30-150					7/28/17 7:33	

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-12-3

Sampled: 7/24/2017 12:05

Sample ID: 17G0989-01

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	90.3		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-1

Sampled: 7/24/2017 12:06

Sample ID: 17G0989-02

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	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 7:51	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					7/28/17 7:51	
Decachlorobiphenyl [2]		108	30-150					7/28/17 7:51	
Tetrachloro-m-xylene [1]		98.5	30-150					7/28/17 7:51	
Tetrachloro-m-xylene [2]		101	30-150					7/28/17 7:51	

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-1

Sampled: 7/24/2017 12:06

Sample ID: 17G0989-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-2

Sampled: 7/24/2017 12:07

Sample ID: 17G0989-03

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	7/25/17	7/28/17 8:09	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:09	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		105	30-150					7/28/17 8:09	
Decachlorobiphenyl [2]		112	30-150					7/28/17 8:09	
Tetrachloro-m-xylene [1]		95.1	30-150					7/28/17 8:09	
Tetrachloro-m-xylene [2]		98.2	30-150					7/28/17 8:09	

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: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-2

Sampled: 7/24/2017 12:07

Sample ID: 17G0989-03

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	88.3		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-3

Sampled: 7/24/2017 12:08

Sample ID: 17G0989-04

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	7/25/17	7/28/17 8:26	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:26	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		87.2	30-150					7/28/17 8:26	
Decachlorobiphenyl [2]		97.6	30-150					7/28/17 8:26	
Tetrachloro-m-xylene [1]		98.5	30-150					7/28/17 8:26	
Tetrachloro-m-xylene [2]		101	30-150					7/28/17 8:26	

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-59-3

Sampled: 7/24/2017 12:08

Sample ID: 17G0989-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-1

Sampled: 7/24/2017 12:09

Sample ID: 17G0989-05

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	7/25/17	7/28/17 8:44	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 8:44	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		84.7	30-150					7/28/17 8:44	
Decachlorobiphenyl [2]		95.2	30-150					7/28/17 8:44	
Tetrachloro-m-xylene [1]		99.5	30-150					7/28/17 8:44	
Tetrachloro-m-xylene [2]		102	30-150					7/28/17 8:44	

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-1

Sampled: 7/24/2017 12:09

Sample ID: 17G0989-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.5		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-2

Sampled: 7/24/2017 12:10

Sample ID: 17G0989-06

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	7/25/17	7/28/17 9:02	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:02	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		82.0	30-150					7/28/17 9:02	
Decachlorobiphenyl [2]		89.8	30-150					7/28/17 9:02	
Tetrachloro-m-xylene [1]		93.8	30-150					7/28/17 9:02	
Tetrachloro-m-xylene [2]		95.4	30-150					7/28/17 9:02	

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-2

Sampled: 7/24/2017 12:10

Sample ID: 17G0989-06

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	93.8		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-3

Sampled: 7/24/2017 12:11

Sample ID: 17G0989-07

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	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:19	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		89.6	30-150					7/28/17 9:19	
Decachlorobiphenyl [2]		110	30-150					7/28/17 9:19	
Tetrachloro-m-xylene [1]		94.4	30-150					7/28/17 9:19	
Tetrachloro-m-xylene [2]		95.5	30-150					7/28/17 9:19	

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-64-3

Sampled: 7/24/2017 12:11

Sample ID: 17G0989-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 8:37	MRL

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-DUP-20

Sampled: 7/24/2017 00:00

Sample ID: 17G0989-08

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	7/25/17	7/28/17 9:37	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 9:37	KAL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		91.6	30-150					7/28/17 9:37	
Decachlorobiphenyl [2]		103	30-150					7/28/17 9:37	
Tetrachloro-m-xylene [1]		103	30-150					7/28/17 9:37	
Tetrachloro-m-xylene [2]		108	30-150					7/28/17 9:37	

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

Sample Description:

Work Order: 17G0989

Date Received: 7/24/2017

Field Sample #: WS-AOC12E-SO-DUP-20

Sampled: 7/24/2017 00:00

Sample ID: 17G0989-08

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	91.2		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0989-01 [WS-AOC12E-SO-12-3]	B182839	07/29/17
17G0989-02 [WS-AOC12E-SO-59-1]	B182839	07/29/17
17G0989-03 [WS-AOC12E-SO-59-2]	B182839	07/29/17
17G0989-04 [WS-AOC12E-SO-59-3]	B182839	07/29/17
17G0989-05 [WS-AOC12E-SO-64-1]	B182839	07/29/17
17G0989-06 [WS-AOC12E-SO-64-2]	B182839	07/29/17
17G0989-07 [WS-AOC12E-SO-64-3]	B182839	07/29/17
17G0989-08 [WS-AOC12E-SO-DUP-20]	B182839	07/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0989-01 [WS-AOC12E-SO-12-3]	B182409	10.0	10.0	07/25/17
17G0989-02 [WS-AOC12E-SO-59-1]	B182409	10.0	10.0	07/25/17
17G0989-03 [WS-AOC12E-SO-59-2]	B182409	10.0	10.0	07/25/17
17G0989-04 [WS-AOC12E-SO-59-3]	B182409	10.0	10.0	07/25/17
17G0989-05 [WS-AOC12E-SO-64-1]	B182409	10.0	10.0	07/25/17
17G0989-06 [WS-AOC12E-SO-64-2]	B182409	10.0	10.0	07/25/17
17G0989-07 [WS-AOC12E-SO-64-3]	B182409	10.0	10.0	07/25/17
17G0989-08 [WS-AOC12E-SO-DUP-20]	B182409	10.0	10.0	07/25/17

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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 B182409 - SW-846 3540C										
Blank (B182409-BLK1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
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	0.162		mg/Kg wet	0.200		81.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.145		mg/Kg wet	0.200		72.7	30-150			
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.146		mg/Kg wet	0.200		73.0	30-150			
LCS (B182409-BS1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		77.4	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		74.6	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.1	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.5	40-140			
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.200		93.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.162		mg/Kg wet	0.200		80.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.140		mg/Kg wet	0.200		69.8	30-150			
LCS Dup (B182409-BSD1)										
Prepared: 07/25/17 Analyzed: 07/27/17										
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.0	40-140	6.93	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		81.5	40-140	8.86	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.1	40-140	3.71	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.5	40-140	2.60	30	
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.161		mg/Kg wet	0.200		80.5	30-150			
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.141		mg/Kg wet	0.200		70.6	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 B182839 - % Solids										
Duplicate (B182839-DUP5)	Source: 17G0989-01			Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	90.8		% Wt		90.3			0.552	20	
Duplicate (B182839-DUP6)	Source: 17G0989-02			Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	88.2		% Wt		86.8			1.60	20	

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

WS-AOC12E-SO-12-3

SW-846 8082A

Lab Sample ID: 17G0989-01 Date(s) Analyzed: 07/28/2017 07/28/2017

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	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.20	10.5
Aroclor-1268	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.19	23.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS

SW-846 8082A

Lab Sample ID: B182409-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.15	
	2	0.000	-0.030	0.030	0.15	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

**IDENTIFICATION SUMMARY
FOR SINGLE COMPONENT ANALYTES**

LCS Dup

SW-846 8082A

Lab Sample ID: B182409-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.17	
	2	0.000	-0.030	0.030	0.16	6.1
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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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.

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
<i>SW-846 8082A in Soil</i>	
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 Public 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



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

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: Malcolm Beeler
Invoice Recipient: Malcolm Beeler (Weston & Sampson)
Sampled By: Chris Berthiaume / Will Sirotnak

Doc # 381 Rev 0 5 8 2015
 39 Spruce Street
 East Longmeadow, MA 01028

Page ____ of ____

CHAIN OF CUSTODY RECORD

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	Matrix Code	Conc Code
1	WS-A0012E-50-12-3	7/2-117	12:05		X	S	U
2	WS-A0012E-50-59-1		12:06				
3	WS-A0012E-50-59-2		12:07				
4	WS-A0012E-50-59-3		12:08				
5	WS-A0012E-50-64-1		12:09				
6	WS-A0012E-50-64-2		12:10				
7	WS-A0012E-50-64-3		12:11				
8	WS-A0012E-50-DUP-20						

ANALYSIS REQUESTED

Dissolved Metal Samples
 Field Filtered
 Lab to Filter

Orthophosphate Samples
 Field Filtered
 Lab to Filter

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

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)

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

ETPH
 PAHs
 (Soil) 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

Program Information

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

NEIAC 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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 East Longmeadow, MA. 01028
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 www.contestlabs.com



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson
 Received By JM Date 7/24/17 Time 1815
 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 - 3.5
 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
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear
DI-		Other Plastic		Other Glass		Encore
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:
Sulfuric-		Perchlorate		Ziplock		

Unused Media

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

Comments:



REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0989

Laboratory Sample ID(s):

Sample Date(s):

17G0989-01 thru 17G0989-08

07/24/2017

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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
1A	Were the method specified preservation and holding time requirements met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> 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)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5A	Were reporting limits specified or referenced on the chain-of-custody?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
5B	Were these reporting limits met?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> 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: 07/31/17

Name of Laboratory: Con-Test Analytical Laboratory

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

August 9, 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: 17G1073

Enclosed are results of analyses for samples received by the laboratory on July 25, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas
Project Manager

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17G1073-07	20
17G1073-08	22
17G1073-09	24
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17G1073-11	28
17G1073-12	30
17G1073-13	32
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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: 8/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1073

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-29-1A	17G1073-01	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-29-1B	17G1073-02	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-29-2	17G1073-03	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-29-3	17G1073-04	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-34-1	17G1073-05	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-34-2	17G1073-06	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-34-3	17G1073-07	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-28-1	17G1073-08	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-28-2	17G1073-09	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-28-3	17G1073-10	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-60-1	17G1073-11	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-60-2	17G1073-12	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-60-3	17G1073-13	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-55-1	17G1073-14	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-55-2A	17G1073-15	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-55-2B	17G1073-16	Soil		CTDEP ETPH SM 2540G SW-846 8270D	
WS-AOC12E-SO-55-3	17G1073-17	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-23-1	17G1073-18	Soil		SM 2540G SW-846 8082A	
WS-AOC12E-SO-23-2	17G1073-19	Soil		SM 2540G SW-846 8082A	

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

REPORT DATE: 8/9/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1073

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-23-3	17G1073-20	Soil		SM 2540G SW-846 8082A	

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.

A handwritten signature in black ink, appearing to read "Lisa A. Worthington", is written over a light gray rectangular background.

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-1A

Sampled: 7/25/2017 10:00

Sample ID: 17G1073-01

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	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:19	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					8/8/17 22:19	
Decachlorobiphenyl [2]		102	30-150					8/8/17 22:19	
Tetrachloro-m-xylene [1]		104	30-150					8/8/17 22:19	
Tetrachloro-m-xylene [2]		107	30-150					8/8/17 22:19	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-1A

Sampled: 7/25/2017 10:00

Sample ID: 17G1073-01

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	85.8		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-1B

Sampled: 7/25/2017 10:02

Sample ID: 17G1073-02

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	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Benzo(a)anthracene	0.69	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Benzo(a)pyrene	0.70	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Benzo(b)fluoranthene	0.93	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Benzo(g,h,i)perylene	0.41	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Benzo(k)fluoranthene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Chrysene	0.68	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Fluoranthene	1.4	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Indeno(1,2,3-cd)pyrene	0.42	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Phenanthrene	0.74	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Pyrene	1.6	0.21	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:24	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		55.6	30-130					8/1/17 23:24	
2-Fluorobiphenyl		53.9	30-130					8/1/17 23:24	
p-Terphenyl-d14		69.5	30-130					8/1/17 23:24	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-1B

Sampled: 7/25/2017 10:02

Sample ID: 17G1073-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	160	60	mg/Kg dry	5		CTDEP ETPH	7/31/17	8/7/17 13:25	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		66.1	50-150					8/7/17 13:25	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-1B

Sampled: 7/25/2017 10:02

Sample ID: 17G1073-02

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	82.8		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-2

Sampled: 7/25/2017 10:04

Sample ID: 17G1073-03

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	7/31/17	8/8/17 22:37	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:37	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		92.5	30-150					8/8/17 22:37	
Decachlorobiphenyl [2]		91.5	30-150					8/8/17 22:37	
Tetrachloro-m-xylene [1]		90.7	30-150					8/8/17 22:37	
Tetrachloro-m-xylene [2]		92.2	30-150					8/8/17 22:37	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-2

Sampled: 7/25/2017 10:04

Sample ID: 17G1073-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/PHA/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	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-3

Sampled: 7/25/2017 10:06

Sample ID: 17G1073-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:56	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		97.3	30-150					8/8/17 22:56	
Decachlorobiphenyl [2]		95.7	30-150					8/8/17 22:56	
Tetrachloro-m-xylene [1]		90.5	30-150					8/8/17 22:56	
Tetrachloro-m-xylene [2]		89.3	30-150					8/8/17 22:56	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-29-3

Sampled: 7/25/2017 10:06

Sample ID: 17G1073-04

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	85.2		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-1

Sampled: 7/25/2017 10:05

Sample ID: 17G1073-05

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	7/31/17	8/8/17 23:14	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:14	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.3	30-150					8/8/17 23:14	
Decachlorobiphenyl [2]		91.9	30-150					8/8/17 23:14	
Tetrachloro-m-xylene [1]		89.7	30-150					8/8/17 23:14	
Tetrachloro-m-xylene [2]		91.7	30-150					8/8/17 23:14	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-1

Sampled: 7/25/2017 10:05

Sample ID: 17G1073-05

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	90.5		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-2

Sampled: 7/25/2017 10:06

Sample ID: 17G1073-06

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	7/31/17	8/8/17 23:32	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:32	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.7	30-150					8/8/17 23:32	
Decachlorobiphenyl [2]		95.5	30-150					8/8/17 23:32	
Tetrachloro-m-xylene [1]		88.3	30-150					8/8/17 23:32	
Tetrachloro-m-xylene [2]		87.7	30-150					8/8/17 23:32	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-2

Sampled: 7/25/2017 10:06

Sample ID: 17G1073-06

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	83.4		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-3

Sampled: 7/25/2017 10:07

Sample ID: 17G1073-07

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	7/31/17	8/8/17 23:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:50	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		103	30-150					8/8/17 23:50	
Decachlorobiphenyl [2]		99.6	30-150					8/8/17 23:50	
Tetrachloro-m-xylene [1]		94.0	30-150					8/8/17 23:50	
Tetrachloro-m-xylene [2]		93.7	30-150					8/8/17 23:50	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-34-3

Sampled: 7/25/2017 10:07

Sample ID: 17G1073-07

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	81.1		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-1

Sampled: 7/25/2017 10:10

Sample ID: 17G1073-08

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	7/31/17	8/9/17 0:07	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:07	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		88.9	30-150					8/9/17 0:07	
Decachlorobiphenyl [2]		86.1	30-150					8/9/17 0:07	
Tetrachloro-m-xylene [1]		85.3	30-150					8/9/17 0:07	
Tetrachloro-m-xylene [2]		87.4	30-150					8/9/17 0:07	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-1

Sampled: 7/25/2017 10:10

Sample ID: 17G1073-08

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	94.1		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-2

Sampled: 7/25/2017 10:11

Sample ID: 17G1073-09

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:26	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					8/9/17 0:26	
Decachlorobiphenyl [2]		98.0	30-150					8/9/17 0:26	
Tetrachloro-m-xylene [1]		94.5	30-150					8/9/17 0:26	
Tetrachloro-m-xylene [2]		95.1	30-150					8/9/17 0:26	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-2

Sampled: 7/25/2017 10:11

Sample ID: 17G1073-09

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	82.8		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-3

Sampled: 7/25/2017 10:12

Sample ID: 17G1073-10

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	7/31/17	8/9/17 0:44	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:44	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					8/9/17 0:44	
Decachlorobiphenyl [2]		96.6	30-150					8/9/17 0:44	
Tetrachloro-m-xylene [1]		93.6	30-150					8/9/17 0:44	
Tetrachloro-m-xylene [2]		94.6	30-150					8/9/17 0:44	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-28-3

Sampled: 7/25/2017 10:12

Sample ID: 17G1073-10

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	89.3		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-1

Sampled: 7/25/2017 10:30

Sample ID: 17G1073-11

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	7/31/17	8/9/17 1:52	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 1:52	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		101	30-150					8/9/17 1:52	
Decachlorobiphenyl [2]		97.1	30-150					8/9/17 1:52	
Tetrachloro-m-xylene [1]		95.8	30-150					8/9/17 1:52	
Tetrachloro-m-xylene [2]		94.5	30-150					8/9/17 1:52	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-1

Sampled: 7/25/2017 10:30

Sample ID: 17G1073-11

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	82.7		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-2

Sampled: 7/25/2017 10:32

Sample ID: 17G1073-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:11	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		94.8	30-150					8/9/17 2:11	
Decachlorobiphenyl [2]		90.0	30-150					8/9/17 2:11	
Tetrachloro-m-xylene [1]		90.4	30-150					8/9/17 2:11	
Tetrachloro-m-xylene [2]		90.1	30-150					8/9/17 2:11	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-2

Sampled: 7/25/2017 10:32

Sample ID: 17G1073-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-3

Sampled: 7/25/2017 10:34

Sample ID: 17G1073-13

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	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:29	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		93.5	30-150					8/9/17 2:29	
Decachlorobiphenyl [2]		102	30-150					8/9/17 2:29	
Tetrachloro-m-xylene [1]		86.3	30-150					8/9/17 2:29	
Tetrachloro-m-xylene [2]		80.8	30-150					8/9/17 2:29	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-60-3

Sampled: 7/25/2017 10:34

Sample ID: 17G1073-13

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	81.4		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-1

Sampled: 7/25/2017 10:30

Sample ID: 17G1073-14

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	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 2:48	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		108	30-150					8/9/17 2:48	
Decachlorobiphenyl [2]		102	30-150					8/9/17 2:48	
Tetrachloro-m-xylene [1]		103	30-150					8/9/17 2:48	
Tetrachloro-m-xylene [2]		101	30-150					8/9/17 2:48	

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-1

Sampled: 7/25/2017 10:30

Sample ID: 17G1073-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.6		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-2A

Sampled: 7/25/2017 10:31

Sample ID: 17G1073-15

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	7/31/17	8/9/17 3:06	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:06	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		104	30-150					8/9/17 3:06	
Decachlorobiphenyl [2]		98.4	30-150					8/9/17 3:06	
Tetrachloro-m-xylene [1]		98.8	30-150					8/9/17 3:06	
Tetrachloro-m-xylene [2]		97.3	30-150					8/9/17 3:06	

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: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-2A

Sampled: 7/25/2017 10:31

Sample ID: 17G1073-15

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	89.5		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-2B

Sampled: 7/25/2017 10:32

Sample ID: 17G1073-16

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	7/31/17	8/1/17 23:50	BGL
Acenaphthylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Benzo(a)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Benzo(a)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Benzo(b)fluoranthene	0.22	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Benzo(g,h,i)perylene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Benzo(k)fluoranthene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Chrysene	0.23	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Dibenz(a,h)anthracene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Fluoranthene	0.49	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Fluorene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Indeno(1,2,3-cd)pyrene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
2-Methylnaphthalene	ND	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Naphthalene	0.26	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Phenanthrene	0.70	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Pyrene	0.40	0.22	mg/Kg dry	1		SW-846 8270D	7/31/17	8/1/17 23:50	BGL
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Nitrobenzene-d5		55.7	30-130					8/1/17 23:50	
2-Fluorobiphenyl		54.5	30-130					8/1/17 23:50	
p-Terphenyl-d14		67.7	30-130					8/1/17 23:50	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-2B

Sampled: 7/25/2017 10:32

Sample ID: 17G1073-16

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	64	mg/Kg dry	5		CTDEP ETPH	7/31/17	8/6/17 17:55	SCS
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
o-Terphenyl		53.9	50-150					8/6/17 17:55	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-2B

Sampled: 7/25/2017 10:32

Sample ID: 17G1073-16

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	78.2		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-3

Sampled: 7/25/2017 10:33

Sample ID: 17G1073-17

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:25	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		102	30-150					8/9/17 3:25	
Decachlorobiphenyl [2]		96.2	30-150					8/9/17 3:25	
Tetrachloro-m-xylene [1]		93.4	30-150					8/9/17 3:25	
Tetrachloro-m-xylene [2]		93.0	30-150					8/9/17 3:25	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-55-3

Sampled: 7/25/2017 10:33

Sample ID: 17G1073-17

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	85.0		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-1

Sampled: 7/25/2017 10:24

Sample ID: 17G1073-18

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	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 3:42	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		107	30-150					8/9/17 3:42	
Decachlorobiphenyl [2]		101	30-150					8/9/17 3:42	
Tetrachloro-m-xylene [1]		100	30-150					8/9/17 3:42	
Tetrachloro-m-xylene [2]		100	30-150					8/9/17 3:42	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-1

Sampled: 7/25/2017 10:24

Sample ID: 17G1073-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.9		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-2

Sampled: 7/25/2017 10:26

Sample ID: 17G1073-19

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	7/31/17	8/9/17 4:01	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:01	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		100	30-150					8/9/17 4:01	
Decachlorobiphenyl [2]		94.6	30-150					8/9/17 4:01	
Tetrachloro-m-xylene [1]		91.0	30-150					8/9/17 4:01	
Tetrachloro-m-xylene [2]		89.6	30-150					8/9/17 4:01	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-2

Sampled: 7/25/2017 10:26

Sample ID: 17G1073-19

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	81.6		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-3

Sampled: 7/25/2017 10:28

Sample ID: 17G1073-20

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	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 4:19	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		83.3	30-150					8/9/17 4:19	
Decachlorobiphenyl [2]		79.1	30-150					8/9/17 4:19	
Tetrachloro-m-xylene [1]		81.4	30-150					8/9/17 4:19	
Tetrachloro-m-xylene [2]		80.4	30-150					8/9/17 4:19	

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

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G1073

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-23-3

Sampled: 7/25/2017 10:28

Sample ID: 17G1073-20

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	83.3		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1073-02 [WS-AOC12E-SO-29-1B]	B182957	30.0	1.00	07/31/17
17G1073-16 [WS-AOC12E-SO-55-2B]	B182957	30.0	1.00	07/31/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1073-01 [WS-AOC12E-SO-29-1A]	B182840	07/29/17
17G1073-02 [WS-AOC12E-SO-29-1B]	B182840	07/29/17
17G1073-03 [WS-AOC12E-SO-29-2]	B182840	07/29/17
17G1073-04 [WS-AOC12E-SO-29-3]	B182840	07/29/17
17G1073-05 [WS-AOC12E-SO-34-1]	B182840	07/29/17
17G1073-06 [WS-AOC12E-SO-34-2]	B182840	07/29/17
17G1073-07 [WS-AOC12E-SO-34-3]	B182840	07/29/17
17G1073-08 [WS-AOC12E-SO-28-1]	B182840	07/29/17
17G1073-09 [WS-AOC12E-SO-28-2]	B182840	07/29/17
17G1073-10 [WS-AOC12E-SO-28-3]	B182840	07/29/17
17G1073-11 [WS-AOC12E-SO-60-1]	B182840	07/29/17
17G1073-12 [WS-AOC12E-SO-60-2]	B182840	07/29/17
17G1073-13 [WS-AOC12E-SO-60-3]	B182840	07/29/17
17G1073-14 [WS-AOC12E-SO-55-1]	B182840	07/29/17
17G1073-15 [WS-AOC12E-SO-55-2A]	B182840	07/29/17
17G1073-16 [WS-AOC12E-SO-55-2B]	B182840	07/29/17
17G1073-17 [WS-AOC12E-SO-55-3]	B182840	07/29/17
17G1073-18 [WS-AOC12E-SO-23-1]	B182840	07/29/17
17G1073-19 [WS-AOC12E-SO-23-2]	B182840	07/29/17
17G1073-20 [WS-AOC12E-SO-23-3]	B182840	07/29/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1073-01 [WS-AOC12E-SO-29-1A]	B182926	10.0	10.0	07/31/17
17G1073-03 [WS-AOC12E-SO-29-2]	B182926	10.0	10.0	07/31/17
17G1073-04 [WS-AOC12E-SO-29-3]	B182926	10.0	10.0	07/31/17
17G1073-05 [WS-AOC12E-SO-34-1]	B182926	10.0	10.0	07/31/17
17G1073-06 [WS-AOC12E-SO-34-2]	B182926	10.0	10.0	07/31/17
17G1073-07 [WS-AOC12E-SO-34-3]	B182926	10.0	10.0	07/31/17
17G1073-08 [WS-AOC12E-SO-28-1]	B182926	10.0	10.0	07/31/17
17G1073-09 [WS-AOC12E-SO-28-2]	B182926	10.0	10.0	07/31/17
17G1073-10 [WS-AOC12E-SO-28-3]	B182926	10.0	10.0	07/31/17
17G1073-11 [WS-AOC12E-SO-60-1]	B182926	10.0	10.0	07/31/17
17G1073-12 [WS-AOC12E-SO-60-2]	B182926	10.0	10.0	07/31/17
17G1073-13 [WS-AOC12E-SO-60-3]	B182926	10.0	10.0	07/31/17
17G1073-14 [WS-AOC12E-SO-55-1]	B182926	10.0	10.0	07/31/17
17G1073-15 [WS-AOC12E-SO-55-2A]	B182926	10.0	10.0	07/31/17
17G1073-17 [WS-AOC12E-SO-55-3]	B182926	10.0	10.0	07/31/17
17G1073-18 [WS-AOC12E-SO-23-1]	B182926	10.0	10.0	07/31/17
17G1073-19 [WS-AOC12E-SO-23-2]	B182926	10.0	10.0	07/31/17
17G1073-20 [WS-AOC12E-SO-23-3]	B182926	10.0	10.0	07/31/17

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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
17G1073-02 [WS-AOC12E-SO-29-1B]	B182956	30.0	1.00	07/31/17
17G1073-16 [WS-AOC12E-SO-55-2B]	B182956	30.0	1.00	07/31/17

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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 B182956 - SW-846 3546										
Blank (B182956-BLK1)										
Prepared: 07/31/17 Analyzed: 08/01/17										
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	2.75		mg/Kg wet	3.33		82.4	30-130			
Surrogate: 2-Fluorobiphenyl	2.63		mg/Kg wet	3.33		79.0	30-130			
Surrogate: p-Terphenyl-d14	3.56		mg/Kg wet	3.33		107	30-130			
LCS (B182956-BS1)										
Prepared: 07/31/17 Analyzed: 08/01/17										
Acenaphthene	1.16	0.17	mg/Kg wet	1.67		69.4	40-140			
Acenaphthylene	1.18	0.17	mg/Kg wet	1.67		70.5	40-140			
Anthracene	1.24	0.17	mg/Kg wet	1.67		74.5	40-140			
Benzo(a)anthracene	1.26	0.17	mg/Kg wet	1.67		75.4	40-140			
Benzo(a)pyrene	1.30	0.17	mg/Kg wet	1.67		78.1	40-140			
Benzo(b)fluoranthene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Benzo(g,h,i)perylene	1.51	0.17	mg/Kg wet	1.67		90.4	40-140			
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.4	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Dibenz(a,h)anthracene	1.42	0.17	mg/Kg wet	1.67		85.4	40-140			
Fluoranthene	1.10	0.17	mg/Kg wet	1.67		65.8	40-140			
Fluorene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140			
Indeno(1,2,3-cd)pyrene	1.44	0.17	mg/Kg wet	1.67		86.6	40-140			
2-Methylnaphthalene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Naphthalene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140			
Phenanthrene	1.25	0.17	mg/Kg wet	1.67		75.0	40-140			
Pyrene	1.42	0.17	mg/Kg wet	1.67		85.0	40-140			
Surrogate: Nitrobenzene-d5	2.64		mg/Kg wet	3.33		79.1	30-130			
Surrogate: 2-Fluorobiphenyl	2.83		mg/Kg wet	3.33		84.9	30-130			
Surrogate: p-Terphenyl-d14	3.38		mg/Kg wet	3.33		101	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 B182956 - SW-846 3546										
LCS Dup (B182956-BSD1)										
					Prepared: 07/31/17 Analyzed: 08/01/17					
Acenaphthene	1.05	0.17	mg/Kg wet	1.67		62.8	40-140	10.0	30	
Acenaphthylene	1.05	0.17	mg/Kg wet	1.67		63.1	40-140	11.0	30	
Anthracene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140	9.30	30	
Benzo(a)anthracene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.74	30	
Benzo(a)pyrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140	7.88	30	
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	8.76	30	
Benzo(g,h,i)perylene	1.40	0.17	mg/Kg wet	1.67		84.3	40-140	7.01	30	
Benzo(k)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.0	40-140	10.6	30	
Chrysene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	8.23	30	
Dibenz(a,h)anthracene	1.32	0.17	mg/Kg wet	1.67		79.1	40-140	7.56	30	
Fluoranthene	0.993	0.17	mg/Kg wet	1.67		59.6	40-140	9.83	30	
Fluorene	1.10	0.17	mg/Kg wet	1.67		65.9	40-140	12.5	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		77.8	40-140	10.8	30	
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		68.1	40-140	9.76	30	
Naphthalene	1.06	0.17	mg/Kg wet	1.67		63.7	40-140	7.23	30	
Phenanthrene	1.14	0.17	mg/Kg wet	1.67		68.5	40-140	9.04	30	
Pyrene	1.24	0.17	mg/Kg wet	1.67		74.7	40-140	13.0	30	
Surrogate: Nitrobenzene-d5	2.42		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	2.56		mg/Kg wet	3.33		76.8	30-130			
Surrogate: p-Terphenyl-d14	2.96		mg/Kg wet	3.33		88.7	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 B182926 - SW-846 3540C										
Blank (B182926-BLK1)										
Prepared: 07/31/17 Analyzed: 08/08/17										
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	0.157		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.147		mg/Kg wet	0.200		73.4	30-150			
Surrogate: Tetrachloro-m-xylene	0.151		mg/Kg wet	0.200		75.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.153		mg/Kg wet	0.200		76.5	30-150			
LCS (B182926-BS1)										
Prepared: 07/31/17 Analyzed: 08/08/17										
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.9	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.7	40-140			
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		92.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.182		mg/Kg wet	0.200		91.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.6	30-150			
LCS Dup (B182926-BSD1)										
Prepared: 07/31/17 Analyzed: 08/08/17										
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.9	40-140	7.36	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		94.9	40-140	6.47	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.9	40-140	5.49	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		82.7	40-140	4.94	30	
Surrogate: Decachlorobiphenyl	0.208		mg/Kg wet	0.200		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.192		mg/Kg wet	0.200		95.8	30-150			
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.186		mg/Kg wet	0.200		92.8	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 B182926 - SW-846 3540C										
Matrix Spike (B182926-MS1) Source: 17G1073-11 Prepared: 07/31/17 Analyzed: 08/09/17										
Aroclor-1016	0.25	0.12	mg/Kg dry	0.242	ND	102	40-140			
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.242	ND	103	40-140			
Aroclor-1260	0.22	0.12	mg/Kg dry	0.242	ND	91.3	40-140			
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.242	ND	90.2	40-140			
Surrogate: Decachlorobiphenyl	0.247		mg/Kg dry	0.242		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg dry	0.242		96.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.226		mg/Kg dry	0.242		93.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.219		mg/Kg dry	0.242		90.7	30-150			
Matrix Spike (B182926-MS2) Source: 17G1073-20 Prepared: 07/31/17 Analyzed: 08/09/17										
Aroclor-1016	0.25	0.12	mg/Kg dry	0.240	ND	102	40-140			
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.240	ND	102	40-140			
Aroclor-1260	0.23	0.12	mg/Kg dry	0.240	ND	93.7	40-140			
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.240	ND	92.6	40-140			
Surrogate: Decachlorobiphenyl	0.245		mg/Kg dry	0.240		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.230		mg/Kg dry	0.240		95.9	30-150			
Surrogate: Tetrachloro-m-xylene	0.225		mg/Kg dry	0.240		93.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.222		mg/Kg dry	0.240		92.6	30-150			
Matrix Spike Dup (B182926-MSD1) Source: 17G1073-11 Prepared: 07/31/17 Analyzed: 08/09/17										
Aroclor-1016	0.27	0.12	mg/Kg dry	0.242	ND	111	40-140	8.21	50	
Aroclor-1016 [2C]	0.25	0.12	mg/Kg dry	0.242	ND	105	40-140	1.92	50	
Aroclor-1260	0.23	0.12	mg/Kg dry	0.242	ND	94.4	40-140	3.32	50	
Aroclor-1260 [2C]	0.22	0.12	mg/Kg dry	0.242	ND	93.0	40-140	3.09	50	
Surrogate: Decachlorobiphenyl	0.255		mg/Kg dry	0.242		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.240		mg/Kg dry	0.242		99.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.243		mg/Kg dry	0.242		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.233		mg/Kg dry	0.242		96.4	30-150			
Matrix Spike Dup (B182926-MSD2) Source: 17G1073-20 Prepared: 07/31/17 Analyzed: 08/09/17										
Aroclor-1016	0.25	0.12	mg/Kg dry	0.240	ND	106	40-140	3.24	50	
Aroclor-1016 [2C]	0.26	0.12	mg/Kg dry	0.240	ND	106	40-140	3.85	50	
Aroclor-1260	0.23	0.12	mg/Kg dry	0.240	ND	96.8	40-140	3.19	50	
Aroclor-1260 [2C]	0.23	0.12	mg/Kg dry	0.240	ND	95.2	40-140	2.77	50	
Surrogate: Decachlorobiphenyl	0.250		mg/Kg dry	0.240		104	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.234		mg/Kg dry	0.240		97.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.223		mg/Kg dry	0.240		93.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.218		mg/Kg dry	0.240		90.8	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 B182957 - SW-846 3546										
Blank (B182957-BLK1)					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	2.66		mg/Kg wet	3.33		79.7	50-150			
LCS (B182957-BS1)					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	25.3	10	mg/Kg wet	33.3		75.9	60-120			
Surrogate: o-Terphenyl	2.64		mg/Kg wet	3.33		79.3	50-150			
LCS Dup (B182957-BSD1)					Prepared: 07/31/17 Analyzed: 08/01/17					
CT ETPH	25.5	10	mg/Kg wet	33.3		76.4	60-120	0.691	30	
Surrogate: o-Terphenyl	2.37		mg/Kg wet	3.33		71.0	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 B182840 - % Solids										
Duplicate (B182840-DUP1)	Source: 17G1073-01		Prepared: 07/29/17 Analyzed: 07/31/17							
% Solids	86.4		% Wt		85.8			0.697	20	
Duplicate (B182840-DUP2)	Source: 17G1073-02		Prepared: 07/29/17 Analyzed: 07/31/17							
% Solids	84.1		% Wt		82.8			1.56	20	
Duplicate (B182840-DUP3)	Source: 17G1073-11		Prepared: 07/29/17 Analyzed: 07/31/17							
% Solids	85.1		% Wt		82.7			2.86	20	
Duplicate (B182840-DUP4)	Source: 17G1073-20		Prepared: 07/29/17 Analyzed: 07/31/17							
% Solids	86.2		% Wt		83.3			3.42	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.

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 Public 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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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 Stronak

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code
11	WS-ACCIZE-SO-60-1	7/25/17	10:30		X	S	U
12	WS-ACCIZE-SO-60-2		10:32				
13	WS-ACCIZE-SO-60-3		10:34				
14	WS-ACCIZE-SO-55-1		10:30				
15	WS-ACCIZE-SO-55-2A		10:31				
16	WS-ACCIZE-SO-55-2B		10:32				
17	WS-ACCIZE-SO-55-3		10:33				
18	WS-ACCIZE-SO-23-1		10:24				
19	WS-ACCIZE-SO-23-2		10:26				
20	WS-ACCIZE-SO-23-3		10:28				

Comments: WS-ACCIZE-SO-60-1 (MS-MSD)

Please hold excess volumes for possible SPLP analyses.

WS-ACCIZE-SO-23-3 (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) *[Signature]* Date/Time: 7/25/17 15:20

Received by: (signature) *[Signature]* Date/Time: 7/25/17 15:00

Relinquished by: (signature) *[Signature]* Date/Time: 7/25/17 15:00

Received by: (signature) *[Signature]* Date/Time: 7/25/17 17:00

Relinquished by: (signature) *[Signature]* Date/Time: 7/25/17 17:00

Received by: (signature) *[Signature]* Date/Time: _____

Detection Limit Requirements: MA

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.

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

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



con-test[®]
 ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston + Sampson
 Received By JM Date 7/25/17 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 - 2.2, 2.4
 By Blank # Actual Temp -
 Was Custody Seal Intact? N/A Were Samples Tampered with? F
 Was COC Relinquished? T Does Chain Agree With Samples? T
 Are there broken/leaking/loose caps on any samples? F
 Is COC in ink/ Legible? T Were samples received within holding time? T
 Did COC include all pertinent Information? Client T Analysis T Sampler Name T
 Project T ID's T Collection Dates/Times T
 Are Sample labels filled out and legible? T
 Are there Lab to Filters? N/A Who was notified?
 Are there Rushes? N/A Who was notified?
 Are there Short Holds? N/A Who was notified?
 Is there enough Volume? T
 Is there Headspace where applicable? N/A MS/MSD? N/A T (JM)
 Proper Media/Containers Used? T Is splitting samples required? N/A
 Were trip blanks received? N/A On COC? N/A
 Do all samples have the proper pH? N/A Acid Base

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

Unused Media

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

Comments:

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

CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D </= 50%

Samples

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

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

CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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