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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629
Date Received: 7/17/2017
Field Sample #: WS-AOC12W-SO-29-3
Sampled: 7/17/2017 14:03
Sample ID: 17G0629-19
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 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 21:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		7/21/17 21:58
Decachlorobiphenyl [2]	97.4	30-150		7/21/17 21:58
Tetrachloro-m-xylene [1]	75.1	30-150		7/21/17 21:58
Tetrachloro-m-xylene [2]	80.6	30-150		7/21/17 21:58

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-3
Sampled: 7/17/2017 14:03

Sample ID: 17G0629-19

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	79.6		% Wt	1		SM 2540G	7/20/17	7/21/17 7:45	MRL

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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1A
Sampled: 7/17/2017 14:12

Sample ID: 17G0629-20

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.0	30-150		7/21/17 22:16
Decachlorobiphenyl [2]	93.0	30-150		7/21/17 22:16
Tetrachloro-m-xylene [1]	69.9	30-150		7/21/17 22:16
Tetrachloro-m-xylene [2]	75.1	30-150		7/21/17 22:16

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1A
Sampled: 7/17/2017 14:12

Sample ID: 17G0629-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	7/20/17	7/21/17 7:45	MRL

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B
Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	6600	1100	mg/Kg dry	100		CTDEP ETPH	7/21/17	7/26/17 13:33	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	7/26/17 13:33

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B
Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	16	2.8	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:09	QNW

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B
Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.5		% Wt	1		SM 2540G	7/20/17	7/21/17 7:45	MRL

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

Project Location: New Haven, CT | Sample Description: | Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-Dup-1 | Sampled: 7/17/2017 00:00

Sample ID: 17G0629-22

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 22:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.8	30-150		7/21/17 22:33
Decachlorobiphenyl [2]	89.8	30-150		7/21/17 22:33
Tetrachloro-m-xylene [1]	70.6	30-150		7/21/17 22:33
Tetrachloro-m-xylene [2]	76.4	30-150		7/21/17 22:33

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-Dup-1
Sampled: 7/17/2017 00:00

Sample ID: 17G0629-22

Sample Matrix: Soil

Conventional 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	7/20/17	7/21/17 7:45	MRL

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-Dup-2
Sampled: 7/17/2017 00:00

Sample ID: 17G0629-23

Sample Matrix: Soil

Polychlorinated 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	7/19/17	7/21/17 12:10	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:10	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.3	30-150		7/21/17 12:10
Decachlorobiphenyl [2]	88.4	30-150		7/21/17 12:10
Tetrachloro-m-xylene [1]	81.7	30-150		7/21/17 12:10
Tetrachloro-m-xylene [2]	84.0	30-150		7/21/17 12:10

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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-Dup-2
Sampled: 7/17/2017 00:00

Sample ID: 17G0629-23

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/20/17	7/21/17 7:45	MRL

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629
Date Received: 7/17/2017
Field Sample #: WS-AOC12W-SO-Dup-3
Sampled: 7/17/2017 00:00
Sample ID: 17G0629-24
Sample Matrix: Soil

Polychlorinated 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	7/19/17	7/21/17 12:22	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:22	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.9	30-150		7/21/17 12:22
Decachlorobiphenyl [2]	83.3	30-150		7/21/17 12:22
Tetrachloro-m-xylene [1]	77.6	30-150		7/21/17 12:22
Tetrachloro-m-xylene [2]	79.1	30-150		7/21/17 12:22

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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-Dup-3
Sampled: 7/17/2017 00:00

Sample ID: 17G0629-24

Sample Matrix: Soil

Conventional 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	7/20/17	7/21/17 7:45	MRL

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Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-2
Sampled: 7/17/2017 14:14

Sample ID: 17G0629-25

Sample Matrix: Soil

Polychlorinated 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	7/19/17	7/21/17 12:35	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:35	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.4	30-150		7/21/17 12:35
Decachlorobiphenyl [2]	64.5	30-150		7/21/17 12:35
Tetrachloro-m-xylene [1]	59.7	30-150		7/21/17 12:35
Tetrachloro-m-xylene [2]	61.7	30-150		7/21/17 12:35

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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-2
Sampled: 7/17/2017 14:14

Sample ID: 17G0629-25

Sample Matrix: Soil

Conventional 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	7/20/17	7/21/17 7:45	MRL

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

Project Location: New Haven, CT | Sample Description: | Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-3 | Sampled: 7/17/2017 14:15

Sample ID: 17G0629-26

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/19/17	7/21/17 12:48	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.0	30-150		7/21/17 12:48
Decachlorobiphenyl [2]	90.5	30-150		7/21/17 12:48
Tetrachloro-m-xylene [1]	80.7	30-150		7/21/17 12:48
Tetrachloro-m-xylene [2]	82.5	30-150		7/21/17 12:48

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

Project Location: New Haven, CT
Sample Description:
Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-3
Sampled: 7/17/2017 14:15

Sample ID: 17G0629-26

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	65.5		% Wt	1		SM 2540G	7/20/17	7/21/17 7:45	MRL

con-test® ANALYTICAL LABORATORY

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0629-21 [WS-AOC12W-SO-33-1B]	B182266	30.0	1.00	07/21/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0629-01 [WS-AOC12W-SO-21-1]	B182096	07/20/17
17G0629-02 [WS-AOC12W-SO-21-2]	B182096	07/20/17
17G0629-03 [WS-AOC12W-SO-21-3]	B182096	07/20/17
17G0629-04 [WS-AOC12W-SO-25-1]	B182096	07/20/17
17G0629-05 [WS-AOC12W-SO-25-2]	B182096	07/20/17
17G0629-06 [WS-AOC12W-SO-25-3]	B182096	07/20/17
17G0629-07 [WS-AOC12W-SO-28-1A]	B182096	07/20/17
17G0629-08 [WS-AOC12W-SO-28-1B]	B182096	07/20/17
17G0629-09 [WS-AOC12W-SO-28-2]	B182096	07/20/17
17G0629-10 [WS-AOC12W-SO-28-3]	B182096	07/20/17
17G0629-11 [WS-AOC12W-SO-24-1]	B182096	07/20/17
17G0629-12 [WS-AOC12W-SO-24-2]	B182096	07/20/17
17G0629-13 [WS-AOC12W-SO-24-3]	B182096	07/20/17
17G0629-14 [WS-AOC12W-SO-20-1]	B182096	07/20/17
17G0629-15 [WS-AOC12W-SO-20-2]	B182096	07/20/17
17G0629-16 [WS-AOC12W-SO-20-3]	B182096	07/20/17
17G0629-17 [WS-AOC12W-SO-29-1]	B182096	07/20/17
17G0629-18 [WS-AOC12W-SO-29-2]	B182096	07/20/17
17G0629-19 [WS-AOC12W-SO-29-3]	B182096	07/20/17
17G0629-20 [WS-AOC12W-SO-33-1A]	B182096	07/20/17
17G0629-21 [WS-AOC12W-SO-33-1B]	B182096	07/20/17
17G0629-22 [WS-AOC12W-SO-Dup-1]	B182096	07/20/17
17G0629-23 [WS-AOC12W-SO-Dup-2]	B182096	07/20/17
17G0629-24 [WS-AOC12W-SO-Dup-3]	B182096	07/20/17
17G0629-25 [WS-AOC12W-SO-33-2]	B182096	07/20/17
17G0629-26 [WS-AOC12W-SO-33-3]	B182096	07/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0629-21 [WS-AOC12W-SO-33-1B]	B182155	1.03	50.0	07/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0629-23 [WS-AOC12W-SO-Dup-2]	B182065	10.0	10.0	07/19/17
17G0629-24 [WS-AOC12W-SO-Dup-3]	B182065	10.0	10.0	07/19/17
17G0629-25 [WS-AOC12W-SO-33-2]	B182065	10.0	10.0	07/19/17
17G0629-26 [WS-AOC12W-SO-33-3]	B182065	10.0	10.0	07/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0629-01 [WS-AOC12W-SO-21-1]	B182066	10.0	10.0	07/19/17
17G0629-02 [WS-AOC12W-SO-21-2]	B182066	10.0	10.0	07/19/17

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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
17G0629-03 [WS-AOC12W-SO-21-3]	B182066	10.0	10.0	07/19/17
17G0629-04 [WS-AOC12W-SO-25-1]	B182066	10.0	10.0	07/19/17
17G0629-05 [WS-AOC12W-SO-25-2]	B182066	10.0	10.0	07/19/17
17G0629-06 [WS-AOC12W-SO-25-3]	B182066	10.0	10.0	07/19/17
17G0629-07 [WS-AOC12W-SO-28-1A]	B182066	10.0	10.0	07/19/17
17G0629-09 [WS-AOC12W-SO-28-2]	B182066	10.0	10.0	07/19/17
17G0629-10 [WS-AOC12W-SO-28-3]	B182066	10.0	10.0	07/19/17
17G0629-11 [WS-AOC12W-SO-24-1]	B182066	10.0	10.0	07/19/17
17G0629-12 [WS-AOC12W-SO-24-2]	B182066	10.0	10.0	07/19/17
17G0629-13 [WS-AOC12W-SO-24-3]	B182066	10.0	10.0	07/19/17
17G0629-14 [WS-AOC12W-SO-20-1]	B182066	10.0	10.0	07/19/17
17G0629-15 [WS-AOC12W-SO-20-2]	B182066	10.0	10.0	07/19/17
17G0629-16 [WS-AOC12W-SO-20-3]	B182066	10.0	10.0	07/19/17
17G0629-17 [WS-AOC12W-SO-29-1]	B182066	10.0	10.0	07/19/17
17G0629-18 [WS-AOC12W-SO-29-2]	B182066	10.0	10.0	07/19/17
17G0629-19 [WS-AOC12W-SO-29-3]	B182066	10.0	10.0	07/19/17
17G0629-20 [WS-AOC12W-SO-33-1A]	B182066	10.0	10.0	07/19/17
17G0629-22 [WS-AOC12W-SO-Dup-1]	B182066	10.0	10.0	07/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0629-08 [WS-AOC12W-SO-28-1B]	B182275	30.0	1.00	07/21/17

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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 B182275 - SW-846 3546										
Blank (B182275-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		72.8	30-130			
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg wet	3.33		88.3	30-130			
LCS (B182275-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Anthracene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Benzo(g,h,i)perylene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Dibenz(a,h)anthracene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140			
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.66*		mg/Kg wet	3.33		79.9	30-130			
Surrogate: p-Terphenyl-d14	*2.80*		mg/Kg wet	3.33		84.0	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 B182275 - SW-846 3546										
LCS Dup (B182275-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	10.7	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	10.2	30	
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	13.4	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	12.4	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	13.7	30	
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	12.3	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	16.3	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	14.7	30	
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	11.7	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140	15.0	30	
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	11.9	30	
Fluorene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	11.9	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	17.3	30	
2-Methylnaphthalene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	8.86	30	
Naphthalene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	4.03	30	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	14.0	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	13.3	30	
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.33		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.8	30-130			
Surrogate: p-Terphenyl-d14	*2.43*		mg/Kg wet	3.33		72.8	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 B182065 - SW-846 3540C										
Blank (B182065-BLK1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.158*		mg/Kg wet	0.200		79.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		79.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
LCS (B182065-BS1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		79.6	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.2	40-140			
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg wet	0.200		87.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg wet	0.200		86.6	30-150			
LCS Dup (B182065-BSD1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		74.6	40-140	6.47	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		75.7	40-140	8.25	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.9	40-140	11.0	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		68.2	40-140	8.44	30	
Surrogate: Decachlorobiphenyl	*0.156*		mg/Kg wet	0.200		78.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		84.2	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182066 - SW-846 3540C										
Blank (B182066-BLK1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.215*		mg/Kg wet	0.200		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	30-150			
LCS (B182066-BS1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		73.1	40-140			
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		77.5	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		72.9	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.3	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		77.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.5	30-150			
LCS Dup (B182066-BSD1)				Prepared: 07/19/17 Analyzed: 07/21/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		74.6	40-140	2.05	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		78.3	40-140	1.08	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.8	40-140	1.29	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.4	40-140	1.48	30	
Surrogate: Decachlorobiphenyl	*0.215*		mg/Kg wet	0.200		108	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg wet	0.200		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.156*		mg/Kg wet	0.200		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		80.8	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 B182066 - SW-846 3540C											
Matrix Spike (B182066-MS1)		**Source: 17G0629-04**		Prepared: 07/19/17 Analyzed: 07/21/17							
Aroclor-1016	0.11	0.11	mg/Kg dry	0.215	ND	51.7	40-140				
Aroclor-1016 [2C]	0.13	0.11	mg/Kg dry	0.215	ND	58.3	40-140				
Aroclor-1260	0.11	0.11	mg/Kg dry	0.215	ND	51.0	40-140				
Aroclor-1260 [2C]	0.11	0.11	mg/Kg dry	0.215	ND	52.1	40-140				
Surrogate: Decachlorobiphenyl	*0.140*		mg/Kg dry	0.215		65.1	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.143*		mg/Kg dry	0.215		66.8	30-150				
Surrogate: Tetrachloro-m-xylene	*0.115*		mg/Kg dry	0.215		53.7	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.122*		mg/Kg dry	0.215		56.7	30-150				
Matrix Spike Dup (B182066-MSD1)		**Source: 17G0629-04**		Prepared: 07/19/17 Analyzed: 07/21/17							
Aroclor-1016	0.19	0.11	mg/Kg dry	0.215	ND	90.9	40-140	**54.9**	*	50	R-06
Aroclor-1016 [2C]	0.18	0.11	mg/Kg dry	0.215	ND	83.0	40-140	35.1		50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.215	ND	71.4	40-140	33.4		50	
Aroclor-1260 [2C]	0.16	0.11	mg/Kg dry	0.215	ND	73.5	40-140	34.0		50	
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg dry	0.215		88.4	30-150				
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg dry	0.215		87.3	30-150				
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg dry	0.215		77.0	30-150				
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg dry	0.215		80.4	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 B182266 - SW-846 3546										
Blank (B182266-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.93*		mg/Kg wet	3.33		87.9	50-150			
LCS (B182266-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
CT ETPH	25.1	10	mg/Kg wet	33.3		75.3	60-120			
Surrogate: o-Terphenyl	*2.65*		mg/Kg wet	3.33		79.4	50-150			
LCS Dup (B182266-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
CT ETPH	23.8	10	mg/Kg wet	33.3		71.3	60-120	5.50	30	
Surrogate: o-Terphenyl	*2.62*		mg/Kg wet	3.33		78.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182155 - SW-846 3050B										
Blank (B182155-BLK1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182155-BS1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	52.4	4.9	mg/Kg wet	57.0		92.0	77.8-122.1			
LCS Dup (B182155-BSD1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	54.4	5.0	mg/Kg wet	57.0		95.4	77.8-122.1	3.72	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182096 - % Solids										
Duplicate (B182096-DUP5)		**Source: 17G0629-03**		Prepared: 07/20/17 Analyzed: 07/21/17						
% Solids	71.8		% Wt		72.3			0.694	20	
Duplicate (B182096-DUP6)		**Source: 17G0629-04**		Prepared: 07/20/17 Analyzed: 07/21/17						
% Solids	94.8		% Wt		93.2			1.70	20	
Duplicate (B182096-DUP7)		**Source: 17G0629-20**		Prepared: 07/20/17 Analyzed: 07/21/17						
% Solids	92.3		% Wt		93.2			0.970	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.

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1740629

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Email: info@contestlabs.com

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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

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

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

Data Delivery
Format: PDF ☒ EXCEL ☐
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Company Name: W+S
Address:
Phone:
Project Name: English Station
Project Location:
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: Will Sirefman

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-21-1	7/17/17	1314		X	S	U	X								
2	WS-AOC12W-SO-21-2	↓	1315		↓	↓	↓	X								
3	WS-AOC12W-SO-21-3		1316					X								
4	WS-AOC12W-SO-25-1		1332					X								
5	WS-AOC12W-SO-25-2		1333					X								
6	WS-AOC12W-SO-25-3		1334					X								
7	WS-AOC12W-SO-28-1A		1338					X								
8	WS-AOC12W-SO-28-1B		1340									X				
9	WS-AOC12W-SO-28-2		1342					X								
10	WS-AOC12W-SO-28-3	↓	1344		↓	↓	↓	X								

Comments:
Run WS-AOC12W-SO-25-1 As Matrix Spike duplicate MS/MSD
Please hold extra volume for future SPLP analysis

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time: 7/17/17 1515	
Received by: (signature)	Date/Time: 7/17/17 1515	
Relinquished by: (signature)	Date/Time: 7/17/17 945	
Received by: (signature)	Date/Time: 7/17/17 1645	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other:

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

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

Table of Contents

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Fax: 413-525-6405
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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

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

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

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Company Name: WES
Address:
Phone:
Project Name: English Station
Project Location:
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By: WVS

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs soxhlet	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-24-1	7/17/17	1346		X	S	U	X								
12	WS-AOC12W-SO-24-2		1347					X								
13	WS-AOC12W-SO-24-3		1349					X								
14	WS-AOC12W-SO-20-1		1356					X								
15	WS-AOC12W-SO-20-2		1358					X								
16	WS-AOC12W-SO-20-3		1400					X								
17	WS-AOC12W-SO-29-1		1401					X								
18	WS-AOC12W-SO-29-2		1402					X								
19	WS-AOC12W-SO-29-3		1403					X								
20	WS-AOC12W-SO-33-1A		1412					X								

Comments:
Please hold extra volume for future SPLP analysis

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

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

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

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

Relinquished by: (signature)	Date/Time:
[signature] 7/17/17	1515
Received by: (signature) [signature] 7/17/17	Date/Time: 1515
Relinquished by: (signature) [signature] 7/17/17	Date/Time: 1645
Received by: (signature) [signature] 7/17/17	Date/Time: 1645
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT
Other

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

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

Other
☐ Chromatogram
☐ *AIHA-LAP,LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

Table of Contents

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Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

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

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

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

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To:
Fax To #:

Company Name: W+S
Address:
Phone:
Project Name: English Station
Project Location:
Project Number:
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler
Sampled By:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs Soxhlet	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
21	WS-AOC12W-SO-33-1B	7/17/17	1413		X	S	U			X			X			
22	WS-AOC12W-SO-DUP-1	↓			↓	↓	↓	X								
23	WS-AOC12W-SO-DUP-2							X								
24	WS-AOC12W-SO-DUP-3							X								
25	WS-AOC12W-SO-33-2		1414					X								
26	WS-AOC12W-SO-33-3	↓	1415		↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
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M = Methanol
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B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

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

Comments:
Please hold extra volume for SPLP analysis (future)

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

	Date/Time
Relinquished by: (signature) 7/17/17	1515
Received by: (signature) 7/17/17	1515
Relinquished by: (signature) 7/17/17	445
Received by: (signature) 7/17/17	1645
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA
CT
Other:

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

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

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

PCB ONLY
☒ Soxhlet
☐ Non Soxhlet

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F: 413-525-6405
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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/17/17 Time 1645

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 5.8

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis ID's T Sampler Name T
Project T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? 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	28
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: New Haven, CT

Project Number: 17G0629

Laboratory Sample ID(s):

17G0629-01 thru 17G0629-26

Sample Date(s):

07/17/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☐ Yes ☑ No
5B	Were these reporting limits met?	☐ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **07/26/17**

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

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

con-test® ANALYTICAL LABORATORY
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July 28, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G0681

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G0681−01	7
17G0681−02	9
17G0681−03	11
17G0681−04	13
17G0681−05	15
17G0681−06	17
17G0681−07	20
17G0681−08	22
17G0681−09	24
17G0681−10	26
17G0681−11	28
17G0681−12	30
17G0681−13	32
17G0681−14	34
17G0681−15	36
17G0681−16	38
17G0681−17	40
17G0681−18	42
17G0681−19	44
17G0681−20	46
Sample Preparation Information	50
QC Data	52

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 52

B182275 52

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 54

B182257 54

Petroleum Hydrocarbons Analyses 56

B182388 56

Metals Analyses (Total) 57

B182155 57

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 58

B182352 58

Dual Column RPD Report 59

Flag/Qualifier Summary 63

Certifications 64

CÜain of Custody/Sample Receipt 66

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

REPORT DATE: 7/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0681

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-22-1	17G0681-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-22-2	17G0681-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-22-3	17G0681-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-4	17G0681-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-5-1A	17G0681-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-5-1B	17G0681-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-5-2	17G0681-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-5-3	17G0681-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-19-1 (MS)	17G0681-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-19-2	17G0681-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-19-3	17G0681-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-2-1A	17G0681-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-2-1B	17G0681-13	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-2-2	17G0681-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-2-3	17G0681-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-15-1	17G0681-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-15-2	17G0681-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-15-3	17G0681-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-11-1A	17G0681-19	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 7/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0681

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-11-1B	17G0681-20	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	

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CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

For method 6010, only As was requested and reported.

CTDEP ETPH

Qualifications:

S-01

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

Analyte & Samples(s) Qualified:

o-Terphenyl
17G0681-06[WS-AOC12W-SO-5-1B], 17G0681-20[WS-AOC12W-SO-11-1B]

SW-846 8082A

Qualifications:

V-05

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

Analyte & Samples(s) Qualified:

Aroclor-1260 [2C]
B182257-BLK1

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-1 Sampled: 7/18/2017 10:16

Sample ID: 17G0681-01

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	7/21/17	7/26/17 16:08	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.7	30-150		7/26/17 16:08
Decachlorobiphenyl [2]	98.5	30-150		7/26/17 16:08
Tetrachloro-m-xylene [1]	86.0	30-150		7/26/17 16:08
Tetrachloro-m-xylene [2]	94.1	30-150		7/26/17 16:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-1 Sampled: 7/18/2017 10:16

Sample ID: 17G0681-01

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	95.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-2 Sampled: 7/18/2017 10:17

Sample ID: 17G0681-02

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	7/21/17	7/26/17 16:20	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:20	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.5	30-150		7/26/17 16:20
Decachlorobiphenyl [2]	86.6	30-150		7/26/17 16:20
Tetrachloro-m-xylene [1]	77.9	30-150		7/26/17 16:20
Tetrachloro-m-xylene [2]	82.3	30-150		7/26/17 16:20

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-2 Sampled: 7/18/2017 10:17

Sample ID: 17G0681-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-3 Sampled: 7/18/2017 10:18

Sample ID: 17G0681-03

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	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1221 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1232 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1242 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1248 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1254 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1260 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1262 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB
Aroclor-1268 [1]	ND	0.22	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.4	30-150		7/26/17 16:33
Decachlorobiphenyl [2]	95.4	30-150		7/26/17 16:33
Tetrachloro-m-xylene [1]	90.8	30-150		7/26/17 16:33
Tetrachloro-m-xylene [2]	99.0	30-150		7/26/17 16:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-3 Sampled: 7/18/2017 10:18

Sample ID: 17G0681-03

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	46.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-4 Sampled: 7/18/2017 00:00

Sample ID: 17G0681-04

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	7/21/17	7/26/17 16:45	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.4	30-150		7/26/17 16:45
Decachlorobiphenyl [2]	72.3	30-150		7/26/17 16:45
Tetrachloro-m-xylene [1]	84.0	30-150		7/26/17 16:45
Tetrachloro-m-xylene [2]	88.2	30-150		7/26/17 16:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-4 Sampled: 7/18/2017 00:00

Sample ID: 17G0681-04

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	95.8		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1A Sampled: 7/18/2017 10:30

Sample ID: 17G0681-05

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	7/21/17	7/26/17 16:57	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 16:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	50.7	30-150		7/26/17 16:57
Decachlorobiphenyl [2]	58.2	30-150		7/26/17 16:57
Tetrachloro-m-xylene [1]	84.7	30-150		7/26/17 16:57
Tetrachloro-m-xylene [2]	93.4	30-150		7/26/17 16:57

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1A Sampled: 7/18/2017 10:30

Sample ID: 17G0681-05

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	93.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	700	230	mg/Kg dry	20		CTDEP ETPH	7/24/17	7/28/17 9:21	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	7/28/17 9:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	220	2.9	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:29	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

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	85.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-2 Sampled: 7/18/2017 10:34

Sample ID: 17G0681-07

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	7/21/17	7/26/17 17:10	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.0	30-150		7/26/17 17:10
Decachlorobiphenyl [2]	66.4	30-150		7/26/17 17:10
Tetrachloro-m-xylene [1]	91.3	30-150		7/26/17 17:10
Tetrachloro-m-xylene [2]	93.9	30-150		7/26/17 17:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-2 Sampled: 7/18/2017 10:34

Sample ID: 17G0681-07

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	85.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-3 Sampled: 7/18/2017 10:36

Sample ID: 17G0681-08

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	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:22	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	50.0	30-150		7/26/17 17:22
Decachlorobiphenyl [2]	58.4	30-150		7/26/17 17:22
Tetrachloro-m-xylene [1]	78.0	30-150		7/26/17 17:22
Tetrachloro-m-xylene [2]	78.1	30-150		7/26/17 17:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-3 Sampled: 7/18/2017 10:36

Sample ID: 17G0681-08

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	68.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-1 (MS) Sampled: 7/18/2017 10:38

Sample ID: 17G0681-09

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	7/21/17	7/26/17 17:35	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	50.8	30-150		7/26/17 17:35
Decachlorobiphenyl [2]	57.0	30-150		7/26/17 17:35
Tetrachloro-m-xylene [1]	75.8	30-150		7/26/17 17:35
Tetrachloro-m-xylene [2]	81.0	30-150		7/26/17 17:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-1 (MS) Sampled: 7/18/2017 10:38

Sample ID: 17G0681-09

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	94.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-2 Sampled: 7/18/2017 10:39

Sample ID: 17G0681-10

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	7/21/17	7/26/17 17:47	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 17:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.5	30-150		7/26/17 17:47
Decachlorobiphenyl [2]	65.0	30-150		7/26/17 17:47
Tetrachloro-m-xylene [1]	78.6	30-150		7/26/17 17:47
Tetrachloro-m-xylene [2]	76.6	30-150		7/26/17 17:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-2 Sampled: 7/18/2017 10:39

Sample ID: 17G0681-10

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	86.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-3 Sampled: 7/18/2017 10:40

Sample ID: 17G0681-11

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	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.0	30-150		7/26/17 18:37
Decachlorobiphenyl [2]	61.5	30-150		7/26/17 18:37
Tetrachloro-m-xylene [1]	85.2	30-150		7/26/17 18:37
Tetrachloro-m-xylene [2]	91.7	30-150		7/26/17 18:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-3 Sampled: 7/18/2017 10:40

Sample ID: 17G0681-11

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	77.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1A Sampled: 7/18/2017 10:54

Sample ID: 17G0681-12

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	7/21/17	7/26/17 18:49	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.2	30-150		7/26/17 18:49
Decachlorobiphenyl [2]	69.5	30-150		7/26/17 18:49
Tetrachloro-m-xylene [1]	83.0	30-150		7/26/17 18:49
Tetrachloro-m-xylene [2]	87.4	30-150		7/26/17 18:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1A Sampled: 7/18/2017 10:54

Sample ID: 17G0681-12

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	85.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1B Sampled: 7/18/2017 10:56

Sample ID: 17G0681-13

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	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Benzo(a)anthracene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Benzo(a)pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Benzo(b)fluoranthene	0.42	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Benzo(g,h,i)perylene	0.26	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Chrysene	0.59	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Fluoranthene	0.64	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Indeno(1,2,3-cd)pyrene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Phenanthrene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL
Pyrene	0.69	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 16:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	65.2	30-130		7/24/17 16:44
2-Fluorobiphenyl	69.8	30-130		7/24/17 16:44
p-Terphenyl-d14	84.8	30-130		7/24/17 16:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1B Sampled: 7/18/2017 10:56

Sample ID: 17G0681-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-2 Sampled: 7/18/2017 10:58

Sample ID: 17G0681-14

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	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.1	30-150		7/26/17 19:02
Decachlorobiphenyl [2]	62.6	30-150		7/26/17 19:02
Tetrachloro-m-xylene [1]	81.1	30-150		7/26/17 19:02
Tetrachloro-m-xylene [2]	87.0	30-150		7/26/17 19:02

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-2 Sampled: 7/18/2017 10:58

Sample ID: 17G0681-14

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	71.4		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-3 Sampled: 7/18/2017 11:00

Sample ID: 17G0681-15

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	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1254 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.9	30-150		7/26/17 19:14
Decachlorobiphenyl [2]	68.5	30-150		7/26/17 19:14
Tetrachloro-m-xylene [1]	86.0	30-150		7/26/17 19:14
Tetrachloro-m-xylene [2]	92.4	30-150		7/26/17 19:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-3 Sampled: 7/18/2017 11:00

Sample ID: 17G0681-15

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	52.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-1 Sampled: 7/18/2017 11:01

Sample ID: 17G0681-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.7	30-150		7/26/17 19:27
Decachlorobiphenyl [2]	74.1	30-150		7/26/17 19:27
Tetrachloro-m-xylene [1]	99.6	30-150		7/26/17 19:27
Tetrachloro-m-xylene [2]	76.7	30-150		7/26/17 19:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-1 Sampled: 7/18/2017 11:01

Sample ID: 17G0681-16

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	95.6		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-2 Sampled: 7/18/2017 11:02

Sample ID: 17G0681-17

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	7/21/17	7/26/17 19:39	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.1	30-150		7/26/17 19:39
Decachlorobiphenyl [2]	60.9	30-150		7/26/17 19:39
Tetrachloro-m-xylene [1]	62.3	30-150		7/26/17 19:39
Tetrachloro-m-xylene [2]	64.4	30-150		7/26/17 19:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-2 Sampled: 7/18/2017 11:02

Sample ID: 17G0681-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-3 Sampled: 7/18/2017 11:03

Sample ID: 17G0681-18

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	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.6	30-150		7/26/17 19:52
Decachlorobiphenyl [2]	72.5	30-150		7/26/17 19:52
Tetrachloro-m-xylene [1]	78.0	30-150		7/26/17 19:52
Tetrachloro-m-xylene [2]	83.5	30-150		7/26/17 19:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-3 Sampled: 7/18/2017 11:03

Sample ID: 17G0681-18

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	72.8		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1A Sampled: 7/18/2017 11:15

Sample ID: 17G0681-19

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	7/21/17	7/26/17 20:04	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.5	30-150		7/26/17 20:04
Decachlorobiphenyl [2]	78.3	30-150		7/26/17 20:04
Tetrachloro-m-xylene [1]	87.5	30-150		7/26/17 20:04
Tetrachloro-m-xylene [2]	95.3	30-150		7/26/17 20:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1A Sampled: 7/18/2017 11:15

Sample ID: 17G0681-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

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	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Benzo(b)fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Chrysene	0.63	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
2-Methylnaphthalene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Naphthalene	0.50	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Phenanthrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL
Pyrene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/21/17	7/24/17 17:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	76.3	30-130		7/24/17 17:06
2-Fluorobiphenyl	74.3	30-130		7/24/17 17:06
p-Terphenyl-d14	111	30-130		7/24/17 17:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	790	220	mg/Kg dry	20		CTDEP ETPH	7/24/17	7/28/17 5:19	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	7/28/17 5:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.6	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:33	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

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	90.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0681-06 [WS-AOC12W-SO-5-1B]	B182388	30.0	1.00	07/24/17
17G0681-20 [WS-AOC12W-SO-11-1B]	B182388	30.0	1.00	07/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0681-01 [WS-AOC12W-SO-22-1]	B182352	07/24/17
17G0681-02 [WS-AOC12W-SO-22-2]	B182352	07/24/17
17G0681-03 [WS-AOC12W-SO-22-3]	B182352	07/24/17
17G0681-04 [WS-AOC12W-SO-DUP-4]	B182352	07/24/17
17G0681-05 [WS-AOC12W-SO-5-1A]	B182352	07/24/17
17G0681-06 [WS-AOC12W-SO-5-1B]	B182352	07/24/17
17G0681-07 [WS-AOC12W-SO-5-2]	B182352	07/24/17
17G0681-08 [WS-AOC12W-SO-5-3]	B182352	07/24/17
17G0681-09 [WS-AOC12W-SO-19-1 (MS)]	B182352	07/24/17
17G0681-10 [WS-AOC12W-SO-19-2]	B182352	07/24/17
17G0681-11 [WS-AOC12W-SO-19-3]	B182352	07/24/17
17G0681-12 [WS-AOC12W-SO-2-1A]	B182352	07/24/17
17G0681-13 [WS-AOC12W-SO-2-1B]	B182352	07/24/17
17G0681-14 [WS-AOC12W-SO-2-2]	B182352	07/24/17
17G0681-15 [WS-AOC12W-SO-2-3]	B182352	07/24/17
17G0681-16 [WS-AOC12W-SO-15-1]	B182352	07/24/17
17G0681-17 [WS-AOC12W-SO-15-2]	B182352	07/24/17
17G0681-18 [WS-AOC12W-SO-15-3]	B182352	07/24/17
17G0681-19 [WS-AOC12W-SO-11-1A]	B182352	07/24/17
17G0681-20 [WS-AOC12W-SO-11-1B]	B182352	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0681-06 [WS-AOC12W-SO-5-1B]	B182155	1.01	50.0	07/20/17
17G0681-20 [WS-AOC12W-SO-11-1B]	B182155	1.06	50.0	07/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0681-01 [WS-AOC12W-SO-22-1]	B182257	10.0	10.0	07/21/17
17G0681-02 [WS-AOC12W-SO-22-2]	B182257	10.0	10.0	07/21/17
17G0681-03 [WS-AOC12W-SO-22-3]	B182257	10.0	10.0	07/21/17
17G0681-04 [WS-AOC12W-SO-DUP-4]	B182257	10.0	10.0	07/21/17
17G0681-05 [WS-AOC12W-SO-5-1A]	B182257	10.0	10.0	07/21/17
17G0681-07 [WS-AOC12W-SO-5-2]	B182257	10.0	10.0	07/21/17
17G0681-08 [WS-AOC12W-SO-5-3]	B182257	10.0	10.0	07/21/17
17G0681-09 [WS-AOC12W-SO-19-1 (MS)]	B182257	10.0	10.0	07/21/17
17G0681-10 [WS-AOC12W-SO-19-2]	B182257	10.0	10.0	07/21/17
17G0681-11 [WS-AOC12W-SO-19-3]	B182257	10.0	10.0	07/21/17
17G0681-12 [WS-AOC12W-SO-2-1A]	B182257	10.0	10.0	07/21/17
17G0681-14 [WS-AOC12W-SO-2-2]	B182257	10.0	10.0	07/21/17
17G0681-15 [WS-AOC12W-SO-2-3]	B182257	10.0	10.0	07/21/17
17G0681-16 [WS-AOC12W-SO-15-1]	B182257	10.0	10.0	07/21/17
17G0681-17 [WS-AOC12W-SO-15-2]	B182257	10.0	10.0	07/21/17

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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
17G0681-18 [WS-AOC12W-SO-15-3]	B182257	10.0	10.0	07/21/17
17G0681-19 [WS-AOC12W-SO-11-1A]	B182257	10.0	10.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0681-13 [WS-AOC12W-SO-2-1B]	B182275	30.0	1.00	07/21/17
17G0681-20 [WS-AOC12W-SO-11-1B]	B182275	30.0	1.00	07/21/17

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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 B182275 - SW-846 3546										
Blank (B182275-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.5	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		72.8	30-130			
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg wet	3.33		88.3	30-130			
LCS (B182275-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	1.14	0.17	mg/Kg wet	1.67		68.7	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140			
Anthracene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.2	40-140			
Benzo(a)pyrene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Benzo(b)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.1	40-140			
Benzo(g,h,i)perylene	1.50	0.17	mg/Kg wet	1.67		90.0	40-140			
Benzo(k)fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Chrysene	1.22	0.17	mg/Kg wet	1.67		73.0	40-140			
Dibenz(a,h)anthracene	1.41	0.17	mg/Kg wet	1.67		84.5	40-140			
Fluoranthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140			
Fluorene	1.16	0.17	mg/Kg wet	1.67		69.7	40-140			
Indeno(1,2,3-cd)pyrene	1.40	0.17	mg/Kg wet	1.67		84.0	40-140			
2-Methylnaphthalene	1.12	0.17	mg/Kg wet	1.67		67.4	40-140			
Naphthalene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Phenanthrene	1.23	0.17	mg/Kg wet	1.67		73.7	40-140			
Pyrene	1.18	0.17	mg/Kg wet	1.67		70.8	40-140			
Surrogate: Nitrobenzene-d5	*2.44*		mg/Kg wet	3.33		73.1	30-130			
Surrogate: 2-Fluorobiphenyl	*2.66*		mg/Kg wet	3.33		79.9	30-130			
Surrogate: p-Terphenyl-d14	*2.80*		mg/Kg wet	3.33		84.0	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 B182275 - SW-846 3546										
LCS Dup (B182275-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Acenaphthene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	10.7	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.2	40-140	10.2	30	
Anthracene	1.06	0.17	mg/Kg wet	1.67		63.9	40-140	13.4	30	
Benzo(a)anthracene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140	12.4	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	13.7	30	
Benzo(b)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	12.3	30	
Benzo(g,h,i)perylene	1.27	0.17	mg/Kg wet	1.67		76.4	40-140	16.3	30	
Benzo(k)fluoranthene	1.02	0.17	mg/Kg wet	1.67		61.2	40-140	14.7	30	
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140	11.7	30	
Dibenz(a,h)anthracene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140	15.0	30	
Fluoranthene	1.05	0.17	mg/Kg wet	1.67		63.0	40-140	11.9	30	
Fluorene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140	11.9	30	
Indeno(1,2,3-cd)pyrene	1.18	0.17	mg/Kg wet	1.67		70.7	40-140	17.3	30	
2-Methylnaphthalene	1.03	0.17	mg/Kg wet	1.67		61.7	40-140	8.86	30	
Naphthalene	0.990	0.17	mg/Kg wet	1.67		59.4	40-140	4.03	30	
Phenanthrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	14.0	30	
Pyrene	1.03	0.17	mg/Kg wet	1.67		61.9	40-140	13.3	30	
Surrogate: Nitrobenzene-d5	*2.28*		mg/Kg wet	3.33		68.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.36*		mg/Kg wet	3.33		70.8	30-130			
Surrogate: p-Terphenyl-d14	*2.43*		mg/Kg wet	3.33		72.8	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 B182257 - SW-846 3540C										
Blank (B182257-BLK1)				Prepared: 07/21/17 Analyzed: 07/26/17						
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							V-05
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.156*		mg/Kg wet	0.200		77.9	30-150			
LCS (B182257-BS1)				Prepared: 07/21/17 Analyzed: 07/27/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		86.5	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.1	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.7	40-140			
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.200		71.3	30-150			
LCS Dup (B182257-BSD1)				Prepared: 07/21/17 Analyzed: 07/27/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.5	40-140	5.97	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.3	40-140	7.07	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.0	40-140	8.03	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.3	40-140	7.19	30	
Surrogate: Decachlorobiphenyl	*0.185*		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg wet	0.200		82.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		mg/Kg wet	0.200		72.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182257 - SW-846 3540C										
Matrix Spike (B182257-MS1)		**Source: 17G0681-09**		Prepared: 07/21/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.212	ND	87.2	40-140			
Aroclor-1016 [2C]	0.18	0.11	mg/Kg dry	0.212	ND	84.1	40-140			
Aroclor-1260	0.16	0.11	mg/Kg dry	0.212	ND	74.1	40-140			
Aroclor-1260 [2C]	0.14	0.11	mg/Kg dry	0.212	ND	66.1	40-140			
Surrogate: Decachlorobiphenyl	*0.137*		mg/Kg dry	0.212		64.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg dry	0.212		78.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg dry	0.212		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.206*		mg/Kg dry	0.212		97.4	30-150			
Matrix Spike Dup (B182257-MSD1)		**Source: 17G0681-09**		Prepared: 07/21/17 Analyzed: 07/27/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.212	ND	89.9	40-140	2.97	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.212	ND	89.5	40-140	6.24	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.212	ND	72.2	40-140	2.54	50	
Aroclor-1260 [2C]	0.14	0.11	mg/Kg dry	0.212	ND	64.5	40-140	2.33	50	
Surrogate: Decachlorobiphenyl	*0.145*		mg/Kg dry	0.212		68.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.163*		mg/Kg dry	0.212		77.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.197*		mg/Kg dry	0.212		93.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.210*		mg/Kg dry	0.212		99.2	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 B182388 - SW-846 3546										
Blank (B182388-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.91*		mg/Kg wet	3.33		117	50-150			
LCS (B182388-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	34.3	10	mg/Kg wet	33.3		103	60-120			
Surrogate: o-Terphenyl	*3.19*		mg/Kg wet	3.33		95.6	50-150			
LCS Dup (B182388-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	31.3	10	mg/Kg wet	33.3		93.8	60-120	9.16	30	
Surrogate: o-Terphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182155 - SW-846 3050B										
Blank (B182155-BLK1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182155-BS1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	52.4	4.9	mg/Kg wet	57.0		92.0	77.8-122.1			
LCS Dup (B182155-BSD1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	54.4	5.0	mg/Kg wet	57.0		95.4	77.8-122.1	3.72	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182352 - % Solids										
Duplicate (B182352-DUP3)		**Source: 17G0681-09**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	95.4		% Wt		94.5			0.948	20	
Duplicate (B182352-DUP4)		**Source: 17G0681-10**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	87.1		% Wt		86.6			0.576	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182257-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	0.17	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182257-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	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182257-MS1

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	0.18	
	2	0.000	-0.030	0.030	0.18	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182257-MSD1 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	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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FLAG/QUALIFIER SUMMARY

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

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

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

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

17G0681

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con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic							# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-22-1	7/18/17	10:16		X	S	U	X														
2	WS-AOC12W-SO-22-2		10:17					X														
3	WS-AOC12W-SO-22-3		10:18					X														
4	WS-AOC12W-SO-DUP-4		[redacted]					X														
5	WS-AOC12W-SO-5-1A		10:32					X		X			X									
6	WS-AOC12W-SO-5-1B		10:32							X			X									
7	WS-AOC12W-SO-5-2		10:34					X														
8	WS-AOC12W-SO-5-3		10:36					X														
9	WS-AOC12W-SO-19-1 (MS)		10:38					X														
10	WS-AOC12W-SO-19-2		10:39					X														

Comments:
WS-AOC12W-SO-19-1 (MS & MSD)
Please hold excess volumes for possible SPLP analyses.

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time:
7/18/17	
Received by: (signature)	Date/Time: 7/18/17 1520
Relinquished by: (signature)	Date/Time: 7/18/17 1500
Received by: (signature)	Date/Time: 7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
10 11	WS-AOC12W-SO-19-3	7/18/17	10:40		X	S	U	X								
11 12	WS-AOC12W-SO-2-1A		10:54					X								
12 13	WS-AOC12W-SO-2-1B		10:56									X				
13 14	WS-AOC12W-SO-2-2		10:58					X								
14 15	WS-AOC12W-SO-2-3		11:00					X								
15 16	WS-AOC12W-SO-15-1		11:01					X								
16 17	WS-AOC12W-SO-15-2		11:03					X								
17 18	WS-AOC12W-SO-15-3		11:03					X								
18 19	WS-AOC12W-SO-11-1A		11:15					X								
20	WS-AOC12WSO-11-1B		11:16							X		X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature) 7/18/17	Date/Time:
Relinquished by: (signature)	Date/Time: 7/18/17 SP
Received by: (signature) 7/18/17 1700	Date/Time:
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/18/17 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 - 2.6, 2.8
By Blank # ____ Actual Temp - ____

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

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

Unused Media

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

Comments:

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: 17G0681

Laboratory Sample ID(s):

17G0681-01 thru 17G0681-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **07/28/17**

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

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

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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: 17G0683

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G0683−01	7
17G0683−02	9
17G0683−03	11
17G0683−04	13
17G0683−05	15
17G0683−06	17
17G0683−07	19
17G0683−08	21
17G0683−09	23
17G0683−10	25
17G0683−11	27
17G0683−12	29
17G0683−13	33
17G0683−14	35
17G0683−15	37
17G0683−16	39
17G0683−17	41
17G0683−18	45
17G0683−19	47
17G0683−20	49
Sample Preparation Information	51
QC Data	53

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 53

B182398 53

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 55

B182259 55

Petroleum Hydrocarbons Analyses 57

B182388 57

Metals Analyses (Total) 58

B182155 58

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 59

B182353 59

Dual Column RPD Report 60

Flag/Qualifier Summary 67

Certifications 68

CÜain of Custody/Sample Receipt 70

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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: 17G0683

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-11-2	17G0683-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-11-3	17G0683-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-12-1	17G0683-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-12-2	17G0683-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-12-3	17G0683-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-5	17G0683-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-7-1 (MS-MSD)	17G0683-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-7-2	17G0683-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-7-3	17G0683-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-35-1	17G0683-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-35-2A	17G0683-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-35-2B	17G0683-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-35-3	17G0683-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-35-4	17G0683-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-42-1	17G0683-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-42-2A	17G0683-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-42-2B	17G0683-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-42-3	17G0683-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0683

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-42-4	17G0683-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-41-1	17G0683-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

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

17G0683-17[WS-AOC12W-SO-42-2B]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G0683-17[WS-AOC12W-SO-42-2B]

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-2 Sampled: 7/18/2017 11:17

Sample ID: 17G0683-01

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	7/21/17	7/26/17 18:26	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.2	30-150		7/26/17 18:26
Decachlorobiphenyl [2]	68.3	30-150		7/26/17 18:26
Tetrachloro-m-xylene [1]	71.9	30-150		7/26/17 18:26
Tetrachloro-m-xylene [2]	66.0	30-150		7/26/17 18:26

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-2 Sampled: 7/18/2017 11:17

Sample ID: 17G0683-01

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	83.5		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-3 Sampled: 7/18/2017 11:18

Sample ID: 17G0683-02

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	7/21/17	7/26/17 18:38	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.8	30-150		7/26/17 18:38
Decachlorobiphenyl [2]	66.5	30-150		7/26/17 18:38
Tetrachloro-m-xylene [1]	77.7	30-150		7/26/17 18:38
Tetrachloro-m-xylene [2]	69.4	30-150		7/26/17 18:38

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-3 Sampled: 7/18/2017 11:18

Sample ID: 17G0683-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-1 Sampled: 7/18/2017 11:14

Sample ID: 17G0683-03

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	7/21/17	7/26/17 18:51	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 18:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.8	30-150		7/26/17 18:51
Decachlorobiphenyl [2]	71.5	30-150		7/26/17 18:51
Tetrachloro-m-xylene [1]	76.3	30-150		7/26/17 18:51
Tetrachloro-m-xylene [2]	71.3	30-150		7/26/17 18:51

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-1 Sampled: 7/18/2017 11:14

Sample ID: 17G0683-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-2 Sampled: 7/18/2017 11:16

Sample ID: 17G0683-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.1	30-150		7/26/17 19:04
Decachlorobiphenyl [2]	73.5	30-150		7/26/17 19:04
Tetrachloro-m-xylene [1]	84.7	30-150		7/26/17 19:04
Tetrachloro-m-xylene [2]	77.5	30-150		7/26/17 19:04

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-2 Sampled: 7/18/2017 11:16

Sample ID: 17G0683-04

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	79.5		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-3 Sampled: 7/18/2017 11:18

Sample ID: 17G0683-05

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	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.7	30-150		7/26/17 19:16
Decachlorobiphenyl [2]	80.8	30-150		7/26/17 19:16
Tetrachloro-m-xylene [1]	93.9	30-150		7/26/17 19:16
Tetrachloro-m-xylene [2]	85.4	30-150		7/26/17 19:16

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-3 Sampled: 7/18/2017 11:18

Sample ID: 17G0683-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.7		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-5 Sampled: 7/18/2017 00:00

Sample ID: 17G0683-06

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	7/21/17	7/26/17 19:29	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/26/17 19:29
Decachlorobiphenyl [2]	80.2	30-150		7/26/17 19:29
Tetrachloro-m-xylene [1]	88.6	30-150		7/26/17 19:29
Tetrachloro-m-xylene [2]	81.3	30-150		7/26/17 19:29

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-5 Sampled: 7/18/2017 00:00

Sample ID: 17G0683-06

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	82.6		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-1 (MS-MSD Sampled: 7/18/2017 11:37

Sample ID: 17G0683-07

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	7/21/17	7/26/17 22:44	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:44	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.8	30-150		7/26/17 22:44
Decachlorobiphenyl [2]	74.0	30-150		7/26/17 22:44
Tetrachloro-m-xylene [1]	71.9	30-150		7/26/17 22:44
Tetrachloro-m-xylene [2]	73.8	30-150		7/26/17 22:44

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-1 (MS-MSD Sampled: 7/18/2017 11:37

Sample ID: 17G0683-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-2 Sampled: 7/18/2017 11:38

Sample ID: 17G0683-08

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	7/21/17	7/26/17 19:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.8	30-150		7/26/17 19:42
Decachlorobiphenyl [2]	65.1	30-150		7/26/17 19:42
Tetrachloro-m-xylene [1]	77.4	30-150		7/26/17 19:42
Tetrachloro-m-xylene [2]	70.0	30-150		7/26/17 19:42

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-2 Sampled: 7/18/2017 11:38

Sample ID: 17G0683-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.0		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-3 Sampled: 7/18/2017 11:39

Sample ID: 17G0683-09

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	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 19:55	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		7/26/17 19:55
Decachlorobiphenyl [2]	75.0	30-150		7/26/17 19:55
Tetrachloro-m-xylene [1]	85.3	30-150		7/26/17 19:55
Tetrachloro-m-xylene [2]	77.4	30-150		7/26/17 19:55

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-3 Sampled: 7/18/2017 11:39

Sample ID: 17G0683-09

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	61.5		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-1 Sampled: 7/18/2017 13:02

Sample ID: 17G0683-10

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	7/21/17	7/26/17 20:07	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 20:07	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.3	30-150		7/26/17 20:07
Decachlorobiphenyl [2]	74.6	30-150		7/26/17 20:07
Tetrachloro-m-xylene [1]	82.3	30-150		7/26/17 20:07
Tetrachloro-m-xylene [2]	75.8	30-150		7/26/17 20:07

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-1 Sampled: 7/18/2017 13:02

Sample ID: 17G0683-10

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	95.4		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2A Sampled: 7/18/2017 13:04

Sample ID: 17G0683-11

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	7/21/17	7/26/17 21:00	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.4	30-150		7/26/17 21:00
Decachlorobiphenyl [2]	74.6	30-150		7/26/17 21:00
Tetrachloro-m-xylene [1]	83.5	30-150		7/26/17 21:00
Tetrachloro-m-xylene [2]	76.6	30-150		7/26/17 21:00

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2A Sampled: 7/18/2017 13:04

Sample ID: 17G0683-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

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	7/24/17	7/25/17 15:57	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Benzo(b)fluoranthene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Chrysene	0.57	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Fluoranthene	0.47	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
2-Methylnaphthalene	1.5	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Naphthalene	0.69	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Phenanthrene	1.6	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL
Pyrene	0.37	0.19	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:57	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	71.9	30-130		7/25/17 15:57
2-Fluorobiphenyl	69.8	30-130		7/25/17 15:57
p-Terphenyl-d14	76.8	30-130		7/25/17 15:57

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	720	220	mg/Kg dry	20		CTDEP ETPH	7/24/17	8/2/17 17:53	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	**12.3** *	50-150		8/2/17 17:53

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	12	2.8	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:37	QNW

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-3 Sampled: 7/18/2017 13:08

Sample ID: 17G0683-13

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	7/21/17	7/26/17 21:13	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.2	30-150		7/26/17 21:13
Decachlorobiphenyl [2]	74.5	30-150		7/26/17 21:13
Tetrachloro-m-xylene [1]	84.4	30-150		7/26/17 21:13
Tetrachloro-m-xylene [2]	77.5	30-150		7/26/17 21:13

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-3 Sampled: 7/18/2017 13:08

Sample ID: 17G0683-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-4 Sampled: 7/18/2017 13:10

Sample ID: 17G0683-14

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	7/21/17	7/26/17 21:26	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		7/26/17 21:26
Decachlorobiphenyl [2]	77.2	30-150		7/26/17 21:26
Tetrachloro-m-xylene [1]	83.7	30-150		7/26/17 21:26
Tetrachloro-m-xylene [2]	76.3	30-150		7/26/17 21:26

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-4 Sampled: 7/18/2017 13:10

Sample ID: 17G0683-14

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	82.7		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-1 Sampled: 7/18/2017 13:07

Sample ID: 17G0683-15

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	7/21/17	7/26/17 21:39	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1260 [1]	0.19	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.9	30-150		7/26/17 21:39
Decachlorobiphenyl [2]	71.4	30-150		7/26/17 21:39
Tetrachloro-m-xylene [1]	81.0	30-150		7/26/17 21:39
Tetrachloro-m-xylene [2]	75.5	30-150		7/26/17 21:39

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-1 Sampled: 7/18/2017 13:07

Sample ID: 17G0683-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2A Sampled: 7/18/2017 13:08

Sample ID: 17G0683-16

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	7/21/17	7/26/17 21:52	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1260 [1]	0.45	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 21:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.4	30-150		7/26/17 21:52
Decachlorobiphenyl [2]	69.1	30-150		7/26/17 21:52
Tetrachloro-m-xylene [1]	82.1	30-150		7/26/17 21:52
Tetrachloro-m-xylene [2]	75.8	30-150		7/26/17 21:52

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2A Sampled: 7/18/2017 13:08

Sample ID: 17G0683-16

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	83.0		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

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	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Acenaphthylene	0.43	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Anthracene	0.52	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Benzo(a)anthracene	1.4	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Benzo(a)pyrene	1.6	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Benzo(b)fluoranthene	2.3	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Benzo(g,h,i)perylene	0.94	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Benzo(k)fluoranthene	0.80	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Chrysene	1.6	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Dibenz(a,h)anthracene	ND	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Fluoranthene	3.1	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Fluorene	ND	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Indeno(1,2,3-cd)pyrene	0.99	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
2-Methylnaphthalene	0.54	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Naphthalene	0.78	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Phenanthrene	1.6	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL
Pyrene	2.5	0.43	mg/Kg dry	2		SW-846 8270D	7/24/17	7/25/17 16:21	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	79.2	30-130		7/25/17 16:21
2-Fluorobiphenyl	75.5	30-130		7/25/17 16:21
p-Terphenyl-d14	75.7	30-130		7/25/17 16:21

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	2100	1300	mg/Kg dry	100		CTDEP ETPH	7/24/17	7/27/17 3:21	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	7/27/17 3:21

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	120	3.0	mg/Kg dry	1		SW-846 6010C-D	7/20/17	7/24/17 5:41	QNW

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

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	79.7		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-3 Sampled: 7/18/2017 13:10

Sample ID: 17G0683-18

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	7/21/17	7/26/17 22:05	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1260 [1]	0.60	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.2	30-150		7/26/17 22:05
Decachlorobiphenyl [2]	68.6	30-150		7/26/17 22:05
Tetrachloro-m-xylene [1]	81.1	30-150		7/26/17 22:05
Tetrachloro-m-xylene [2]	74.4	30-150		7/26/17 22:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-3 Sampled: 7/18/2017 13:10

Sample ID: 17G0683-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.1		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-4 Sampled: 7/18/2017 13:11

Sample ID: 17G0683-19

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	7/21/17	7/26/17 22:18	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.6	30-150		7/26/17 22:18
Decachlorobiphenyl [2]	62.2	30-150		7/26/17 22:18
Tetrachloro-m-xylene [1]	77.0	30-150		7/26/17 22:18
Tetrachloro-m-xylene [2]	70.4	30-150		7/26/17 22:18

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-4 Sampled: 7/18/2017 13:11

Sample ID: 17G0683-19

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	83.7		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-1 Sampled: 7/18/2017 13:16

Sample ID: 17G0683-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/21/17	7/26/17 22:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.5	30-150		7/26/17 22:31
Decachlorobiphenyl [2]	68.4	30-150		7/26/17 22:31
Tetrachloro-m-xylene [1]	95.5	30-150		7/26/17 22:31
Tetrachloro-m-xylene [2]	87.3	30-150		7/26/17 22:31

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

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-1 Sampled: 7/18/2017 13:16

Sample ID: 17G0683-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/24/17	7/25/17 8:31	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0683-12 [WS-AOC12W-SO-35-2B]	B182388	30.0	1.00	07/24/17
17G0683-17 [WS-AOC12W-SO-42-2B]	B182388	30.0	1.00	07/24/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0683-01 [WS-AOC12W-SO-11-2]	B182353	07/24/17
17G0683-02 [WS-AOC12W-SO-11-3]	B182353	07/24/17
17G0683-03 [WS-AOC12W-SO-12-1]	B182353	07/24/17
17G0683-04 [WS-AOC12W-SO-12-2]	B182353	07/24/17
17G0683-05 [WS-AOC12W-SO-12-3]	B182353	07/24/17
17G0683-06 [WS-AOC12W-SO-DUP-5]	B182353	07/24/17
17G0683-07 [WS-AOC12W-SO-7-1 (MS-MSD)]	B182353	07/24/17
17G0683-08 [WS-AOC12W-SO-7-2]	B182353	07/24/17
17G0683-09 [WS-AOC12W-SO-7-3]	B182353	07/24/17
17G0683-10 [WS-AOC12W-SO-35-1]	B182353	07/24/17
17G0683-11 [WS-AOC12W-SO-35-2A]	B182353	07/24/17
17G0683-12 [WS-AOC12W-SO-35-2B]	B182353	07/24/17
17G0683-13 [WS-AOC12W-SO-35-3]	B182353	07/24/17
17G0683-14 [WS-AOC12W-SO-35-4]	B182353	07/24/17
17G0683-15 [WS-AOC12W-SO-42-1]	B182353	07/24/17
17G0683-16 [WS-AOC12W-SO-42-2A]	B182353	07/24/17
17G0683-17 [WS-AOC12W-SO-42-2B]	B182353	07/24/17
17G0683-18 [WS-AOC12W-SO-42-3]	B182353	07/24/17
17G0683-19 [WS-AOC12W-SO-42-4]	B182353	07/24/17
17G0683-20 [WS-AOC12W-SO-41-1]	B182353	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0683-12 [WS-AOC12W-SO-35-2B]	B182155	1.01	50.0	07/20/17
17G0683-17 [WS-AOC12W-SO-42-2B]	B182155	1.06	50.0	07/20/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0683-01 [WS-AOC12W-SO-11-2]	B182259	10.0	10.0	07/21/17
17G0683-02 [WS-AOC12W-SO-11-3]	B182259	10.0	10.0	07/21/17
17G0683-03 [WS-AOC12W-SO-12-1]	B182259	10.0	10.0	07/21/17
17G0683-04 [WS-AOC12W-SO-12-2]	B182259	10.0	10.0	07/21/17
17G0683-05 [WS-AOC12W-SO-12-3]	B182259	10.0	10.0	07/21/17
17G0683-06 [WS-AOC12W-SO-DUP-5]	B182259	10.0	10.0	07/21/17
17G0683-07 [WS-AOC12W-SO-7-1 (MS-MSD)]	B182259	10.0	10.0	07/21/17
17G0683-08 [WS-AOC12W-SO-7-2]	B182259	10.0	10.0	07/21/17
17G0683-09 [WS-AOC12W-SO-7-3]	B182259	10.0	10.0	07/21/17
17G0683-10 [WS-AOC12W-SO-35-1]	B182259	10.0	10.0	07/21/17
17G0683-11 [WS-AOC12W-SO-35-2A]	B182259	10.0	10.0	07/21/17
17G0683-13 [WS-AOC12W-SO-35-3]	B182259	10.0	10.0	07/21/17
17G0683-14 [WS-AOC12W-SO-35-4]	B182259	10.0	10.0	07/21/17
17G0683-15 [WS-AOC12W-SO-42-1]	B182259	10.0	10.0	07/21/17
17G0683-16 [WS-AOC12W-SO-42-2A]	B182259	10.0	10.0	07/21/17

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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
17G0683-18 [WS-AOC12W-SO-42-3]	B182259	10.0	10.0	07/21/17
17G0683-19 [WS-AOC12W-SO-42-4]	B182259	10.0	10.0	07/21/17
17G0683-20 [WS-AOC12W-SO-41-1]	B182259	10.0	10.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0683-12 [WS-AOC12W-SO-35-2B]	B182398	30.0	1.00	07/24/17
17G0683-17 [WS-AOC12W-SO-42-2B]	B182398	30.0	1.00	07/24/17

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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 B182398 - SW-846 3546										
Blank (B182398-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.34*		mg/Kg wet	3.33		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg wet	3.33		90.8	30-130			
LCS (B182398-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Chrysene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Pyrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Surrogate: Nitrobenzene-d5	*2.55*		mg/Kg wet	3.33		76.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.55*		mg/Kg wet	3.33		76.5	30-130			
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182398 - SW-846 3546										
LCS Dup (B182398-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	5.68	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	5.54	30	
Anthracene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	6.12	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	7.19	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	7.72	30	
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	6.59	30	
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	4.46	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	5.20	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	7.53	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	6.67	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.45	30	
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	4.72	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	3.09	30	
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	7.64	30	
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.99	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	7.22	30	
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.22	30	
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.65*		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	*2.93*		mg/Kg wet	3.33		88.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182259 - SW-846 3540C										
Blank (B182259-BLK1)				Prepared: 07/21/17 Analyzed: 07/26/17						
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	*0.154*		mg/Kg wet	0.200		77.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.173*		mg/Kg wet	0.200		86.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		80.8	30-150			
LCS (B182259-BS1)				Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.5	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.6	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		73.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		67.9	40-140			
Surrogate: Decachlorobiphenyl	*0.150*		mg/Kg wet	0.200		74.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			
LCS Dup (B182259-BSD1)				Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	7.00	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.5	40-140	2.33	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.8	40-140	6.42	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		71.4	40-140	5.01	30	
Surrogate: Decachlorobiphenyl	*0.159*		mg/Kg wet	0.200		79.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.169*		mg/Kg wet	0.200		84.6	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182259 - SW-846 3540C										
Matrix Spike (B182259-MS1)		**Source: 17G0683-07**		Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.11	mg/Kg dry	0.219	ND	71.3	40-140			
Aroclor-1016 [2C]	0.20	0.11	mg/Kg dry	0.219	ND	90.3	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.219	ND	67.4	40-140			
Aroclor-1260 [2C]	0.14	0.11	mg/Kg dry	0.219	ND	62.2	40-140			
Surrogate: Decachlorobiphenyl	*0.147*		mg/Kg dry	0.219		67.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.148*		mg/Kg dry	0.219		67.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.140*		mg/Kg dry	0.219		64.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.126*		mg/Kg dry	0.219		57.6	30-150			
Matrix Spike Dup (B182259-MSD1)		**Source: 17G0683-07**		Prepared: 07/21/17 Analyzed: 07/26/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.219	ND	77.9	40-140	8.92	50	
Aroclor-1016 [2C]	0.15	0.11	mg/Kg dry	0.219	ND	68.8	40-140	27.0	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.219	ND	67.2	40-140	0.327	50	
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.219	ND	58.2	40-140	6.66	50	
Surrogate: Decachlorobiphenyl	*0.137*		mg/Kg dry	0.219		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg dry	0.219		64.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.219		68.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg dry	0.219		64.9	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 B182388 - SW-846 3546										
Blank (B182388-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.91*		mg/Kg wet	3.33		117	50-150			
LCS (B182388-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	34.3	10	mg/Kg wet	33.3		103	60-120			
Surrogate: o-Terphenyl	*3.19*		mg/Kg wet	3.33		95.6	50-150			
LCS Dup (B182388-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
CT ETPH	31.3	10	mg/Kg wet	33.3		93.8	60-120	9.16	30	
Surrogate: o-Terphenyl	*2.82*		mg/Kg wet	3.33		84.6	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182155 - SW-846 3050B										
Blank (B182155-BLK1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182155-BS1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	52.4	4.9	mg/Kg wet	57.0		92.0	77.8-122.1			
LCS Dup (B182155-BSD1)				Prepared: 07/20/17 Analyzed: 07/24/17						
Arsenic	54.4	5.0	mg/Kg wet	57.0		95.4	77.8-122.1	3.72	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182353 - % Solids										
Duplicate (B182353-DUP1)		**Source: 17G0683-01**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	80.5		% Wt		83.5			3.66	20	
Duplicate (B182353-DUP2)		**Source: 17G0683-07**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	92.5		% Wt		91.4			1.20	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-42-1

Lab Sample ID: 17G0683-15

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.17	16.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-42-2A

Lab Sample ID: 17G0683-16

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.45	
	2	0.000	-0.030	0.030	0.40	11.8

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-42-3

Lab Sample ID: 17G0683-18

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.60	
	2	0.000	-0.030	0.030	0.56	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182259-BS1

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182259-BSD1 Date(s) Analyzed: 07/26/2017 07/26/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	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	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182259-MS1

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.20	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182259-MSD1

Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.15	12.5
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.13	14.3

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

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

1760683

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-11-2	7/17/17	11:17		X	S	U	X								
2	WS-AOC12W-SO-11-3		11:18					X								
3	WS-AOC12W-SO-12-1		11:14					X								
4	WS-AOC12W-SO-12-2		11:16					X								
5	WS-AOC12W-SO-12-3		11:18					X								
6	WS-AOC12W-SO-DUP-5							X								
7	WS-AOC-12W-SO-7-1(MS-MSD)		11:37					X								
8	WS-AOC12W-SO-7-2		11:38					X								
9	WS-AOC12W-SO-7-3		11:39					X								
10	WS-AOC12W-SO-35-1		13:02					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-7-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature)	Date/Time: 7/18/17 1520
Relinquished by: (signature)	Date/Time: 7/18/17 5PM
Received by: (signature) 2-6 7/18/17	Date/Time: 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-35-2A	13:04	7/18/17		X	S	U	X								
12	WS-AOC12W-SO-35-2B	13:06								X		X	X			
13	WS-AOC12W-SO-35-3	13:08						X								
14	WS-AOC12W-SO-35-4	13:10						X								
15	WS-AOC12W-SO-42-1	13:07						X								
16	WS-AOC12W-SO-42-2A	13:08						X								
17	WS-AOC12W-SO-42-2B	13:09								X		X	X			
18	WS-AOC12W-SO-42-3	13:10						X								
19	WS-AOC12W-SO-42-4	13:11						X								
20	WS-AOC12W-SO-41-1	13:16						X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature)	Date/Time: 7/18/17
Relinquished by: (signature)	Date/Time: 7/18/17 5PM
Received by: (signature) 7.6	Date/Time: 7/18/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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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 7/18/17 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 - 2.6
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	23
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\A072617\A0726006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/26/17
Data File Name	A0726006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.08	463644	527307	-12
c - 10	1.43	429813	527307	-18
c - 12	2.17	492951	527307	-7
c - 14	2.84	517034	527307	-2
c - 16	3.44	537487	527307	2
c - 18	4.02	535755	527307	2
o-Terphenyl	4.31	619261	527307	
c - 20	4.64	551123	527307	5
c - 22	5.16	563570	527307	7
c - 24	5.60	530548	527307	1
c - 26	6.00	565016	527307	7
c - 28	6.36	563865	527307	7
c - 30	6.70	559455	527307	6
c - 32	7.01	539794	527307	2
c - 34	7.30	533898	527307	1
c - 36	7.58	525647	527307	0

* One compound allowed %D </= 50%

Samples

17G0872-02
17G0872-03
17G0872-04
17G0872-08
17G0872-09
17G0872-11
17G0872-12
17G0872-13
17G0872-15
17G0872-19
17G0872-20

D:\HPCHEM\1\DATA\A072617\A0726062.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0726062.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.08	497436	574822	-13
c - 10	1.43	501948	574822	-13
c - 12	2.17	535419	574822	-7
c - 14	2.84	560592	574822	-2
c - 16	3.44	581051	574822	1
c - 18	4.02	581480	574822	1
o-Terphenyl	4.31	680583	574822	
c - 20	4.63	597706	574822	4
c - 22	5.16	610388	574822	6
c - 24	5.60	576317	574822	0
c - 26	6.00	614648	574822	7
c - 28	6.36	608413	574822	6
c - 30	6.70	610047	574822	6
c - 32	7.01	589773	574822	3
c - 34	7.30	582876	574822	1
c - 36	7.58	574232	574822	0

* One compound allowed %D <= 50%

Samples

17G0813-02
17G0813-03
17G0813-04
17G0813-05
17G0813-06
17G0813-08
17G0813-09
17G0943-01
17G0872-16
17G0872-17
17G0872-18
17G0872-01

D:\HPCHEM\1\DATA\A072617.SEC\A0726063.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0726063.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	498471	526360	-5
c - 10	1.49	504262	526360	-4
c - 12	2.22	524847	526360	0
c - 14	2.88	533222	526360	1
c - 16	3.48	543275	526360	3
c - 18	4.06	534698	526360	2
o-Terphenyl	4.35	617280	526360	
c - 20	4.67	545191	526360	4
c - 22	5.18	550713	526360	5
c - 24	5.62	513981	526360	-2
c - 26	6.01	540085	526360	3
c - 28	6.37	535002	526360	2
c - 30	6.70	527759	526360	0
c - 32	7.01	513103	526360	-3
c - 34	7.30	513967	526360	-2
c - 36	7.58	516823	526360	-2

* One compound allowed %D <= 50%

Samples

17G0683-17@100X
17G0687-15@5X
17G0813-07@5X
17G0813-11@5X
17G0813-12@5X
17G0813-13@5X
17G0683-12@5X

D:\HPCHEM\1\DATA\A072617.SEC\A0726007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/26/17
Data File Name	A0726007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	461239	489728	-6
c - 10	1.49	468196	489728	-4
c - 12	2.23	488778	489728	0
c - 14	2.89	498317	489728	2
c - 16	3.48	507877	489728	4
c - 18	4.06	500012	489728	2
o-Terphenyl	4.36	571721	489728	
c - 20	4.67	507396	489728	4
c - 22	5.18	513338	489728	5
c - 24	5.62	478474	489728	-2
c - 26	6.01	503104	489728	3
c - 28	6.37	494682	489728	1
c - 30	6.70	489882	489728	0
c - 32	7.01	476441	489728	-3
c - 34	7.30	478360	489728	-2
c - 36	7.58	479818	489728	-2

* One compound allowed %D <= 50%

Samples

17G0872-21
17G0872-22
17G0872-23

D:\HPCHEM\1\DATA\A072817\A0728006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/28/17
Data File Name	A0728006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451956	506490	-11
c - 10	1.43	426315	506490	-16
c - 12	2.17	478068	506490	-6
c - 14	2.84	489455	506490	-3
c - 16	3.44	503555	506490	-1
c - 18	4.02	499971	506490	-1
o-Terphenyl	4.31	572874	506490	
c - 20	4.64	511535	506490	1
c - 22	5.16	531717	506490	5
c - 24	5.60	496000	506490	-2
c - 26	6.00	529893	506490	5
c - 28	6.36	531454	506490	5
c - 30	6.69	533987	506490	5
c - 32	7.01	528027	506490	4
c - 34	7.30	539030	506490	6
c - 36	7.58	546392	506490	8

* One compound allowed %D <= 50%

Samples

17G0813-10@20X
17G0683-12@20X

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: 17G0683

Laboratory Sample ID(s):

17G0683-01 thru 17G0683-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 2, 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: 17G0685

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0685-01	6
17G0685-02	8
17G0685-03	10
17G0685-04	12
17G0685-05	14
17G0685-06	16
17G0685-07	18
17G0685-08	20
17G0685-09	22
17G0685-10	24
17G0685-11	26
17G0685-12	28
17G0685-13	30
17G0685-14	32
17G0685-15	34
17G0685-16	36
17G0685-17	38
17G0685-18	40
17G0685-19	42
17G0685-20	44
Sample Preparation Information	46
QC Data	47

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 47

B182398 47

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 49

B182401 49

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 51

B182352 51

Dual Column RPD Report 52

Flag/Qualifier Summary 58

Certifications 59

Chain of Custody/Sample Receipt 61

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

REPORT DATE: 8/2/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0685

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-41-2	17G0685-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-41-3	17G0685-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-41-4	17G0685-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-1	17G0685-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-2	17G0685-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-3	17G0685-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-36-4	17G0685-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-1 (MS)	17G0685-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-2	17G0685-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-3	17G0685-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-40-4	17G0685-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-1	17G0685-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-2A	17G0685-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-2B	17G0685-14	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-37-3	17G0685-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-37-4	17G0685-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-1	17G0685-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-2	17G0685-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-3	17G0685-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-38-4	17G0685-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

V-05

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

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B182401-BLK1, B182401-BS1, B182401-BSD1

Aroclor-1260 [2C]
B182401-BLK1, B182401-BS1, B182401-BSD1

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

Lisa A. Worthington
Project Manager

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-2 Sampled: 7/18/2017 13:17

Sample ID: 17G0685-01

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	7/24/17	7/26/17 21:56	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 21:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.9	30-150		7/26/17 21:56
Decachlorobiphenyl [2]	72.5	30-150		7/26/17 21:56
Tetrachloro-m-xylene [1]	77.6	30-150		7/26/17 21:56
Tetrachloro-m-xylene [2]	81.2	30-150		7/26/17 21:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-2 Sampled: 7/18/2017 13:17

Sample ID: 17G0685-01

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	90.5		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-3 Sampled: 7/18/2017 13:18

Sample ID: 17G0685-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1260 [1]	0.37	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	46.5	30-150		7/27/17 6:38
Decachlorobiphenyl [2]	55.1	30-150		7/27/17 6:38
Tetrachloro-m-xylene [1]	55.7	30-150		7/27/17 6:38
Tetrachloro-m-xylene [2]	56.1	30-150		7/27/17 6:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-3 Sampled: 7/18/2017 13:18

Sample ID: 17G0685-02

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	75.8		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-4 Sampled: 7/18/2017 13:19

Sample ID: 17G0685-03

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	7/24/17	7/26/17 22:21	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.1	30-150		7/26/17 22:21
Decachlorobiphenyl [2]	64.8	30-150		7/26/17 22:21
Tetrachloro-m-xylene [1]	65.7	30-150		7/26/17 22:21
Tetrachloro-m-xylene [2]	64.4	30-150		7/26/17 22:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-4 Sampled: 7/18/2017 13:19

Sample ID: 17G0685-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-1 Sampled: 7/18/2017 13:20

Sample ID: 17G0685-04

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	7/24/17	7/26/17 22:33	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	46.6	30-150		7/26/17 22:33
Decachlorobiphenyl [2]	53.3	30-150		7/26/17 22:33
Tetrachloro-m-xylene [1]	59.3	30-150		7/26/17 22:33
Tetrachloro-m-xylene [2]	60.1	30-150		7/26/17 22:33

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-1 Sampled: 7/18/2017 13:20

Sample ID: 17G0685-04

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	94.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-2 Sampled: 7/18/2017 13:22

Sample ID: 17G0685-05

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	7/24/17	7/26/17 22:45	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:45	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	44.1	30-150		7/26/17 22:45
Decachlorobiphenyl [2]	51.4	30-150		7/26/17 22:45
Tetrachloro-m-xylene [1]	57.2	30-150		7/26/17 22:45
Tetrachloro-m-xylene [2]	58.1	30-150		7/26/17 22:45

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-2 Sampled: 7/18/2017 13:22

Sample ID: 17G0685-05

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	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-3 Sampled: 7/18/2017 13:24

Sample ID: 17G0685-06

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	7/24/17	7/26/17 22:58	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 22:58	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	58.6	30-150		7/26/17 22:58
Decachlorobiphenyl [2]	67.2	30-150		7/26/17 22:58
Tetrachloro-m-xylene [1]	75.6	30-150		7/26/17 22:58
Tetrachloro-m-xylene [2]	75.1	30-150		7/26/17 22:58

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-3 Sampled: 7/18/2017 13:24

Sample ID: 17G0685-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-4 Sampled: 7/18/2017 13:26

Sample ID: 17G0685-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	52.6	30-150		7/26/17 23:10
Decachlorobiphenyl [2]	58.0	30-150		7/26/17 23:10
Tetrachloro-m-xylene [1]	66.7	30-150		7/26/17 23:10
Tetrachloro-m-xylene [2]	70.9	30-150		7/26/17 23:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-36-4 Sampled: 7/18/2017 13:26

Sample ID: 17G0685-07

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	72.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-1 (MS) Sampled: 7/18/2017 13:33

Sample ID: 17G0685-08

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	7/24/17	7/26/17 23:23	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:23	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		7/26/17 23:23
Decachlorobiphenyl [2]	82.0	30-150		7/26/17 23:23
Tetrachloro-m-xylene [1]	87.4	30-150		7/26/17 23:23
Tetrachloro-m-xylene [2]	94.2	30-150		7/26/17 23:23

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: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-1 (MS) Sampled: 7/18/2017 13:33

Sample ID: 17G0685-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-2 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-09

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	7/24/17	7/26/17 23:35	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/26/17 23:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	62.5	30-150		7/26/17 23:35
Decachlorobiphenyl [2]	72.2	30-150		7/26/17 23:35
Tetrachloro-m-xylene [1]	74.3	30-150		7/26/17 23:35
Tetrachloro-m-xylene [2]	75.9	30-150		7/26/17 23:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-2 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-3 Sampled: 7/18/2017 13:35

Sample ID: 17G0685-10

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	7/24/17	7/27/17 6:50	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1260 [1]	0.38	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 6:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.2	30-150		7/27/17 6:50
Decachlorobiphenyl [2]	77.9	30-150		7/27/17 6:50
Tetrachloro-m-xylene [1]	80.3	30-150		7/27/17 6:50
Tetrachloro-m-xylene [2]	77.1	30-150		7/27/17 6:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-3 Sampled: 7/18/2017 13:35

Sample ID: 17G0685-10

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	84.0		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-11

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	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:37	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.4	30-150		7/27/17 0:37
Decachlorobiphenyl [2]	80.4	30-150		7/27/17 0:37
Tetrachloro-m-xylene [1]	84.5	30-150		7/27/17 0:37
Tetrachloro-m-xylene [2]	85.1	30-150		7/27/17 0:37

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: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-40-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-11

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	72.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-1 Sampled: 7/18/2017 13:38

Sample ID: 17G0685-12

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	7/24/17	7/27/17 0:49	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 0:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	31.4	30-150		7/27/17 0:49
Decachlorobiphenyl [2]	35.2	30-150		7/27/17 0:49
Tetrachloro-m-xylene [1]	39.6	30-150		7/27/17 0:49
Tetrachloro-m-xylene [2]	41.6	30-150		7/27/17 0:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-1 Sampled: 7/18/2017 13:38

Sample ID: 17G0685-12

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	94.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2A Sampled: 7/18/2017 13:30

Sample ID: 17G0685-13

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	7/24/17	7/27/17 1:02	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:02	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.6	30-150		7/27/17 1:02
Decachlorobiphenyl [2]	75.4	30-150		7/27/17 1:02
Tetrachloro-m-xylene [1]	74.7	30-150		7/27/17 1:02
Tetrachloro-m-xylene [2]	71.1	30-150		7/27/17 1:02

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2A Sampled: 7/18/2017 13:30

Sample ID: 17G0685-13

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	89.2		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2B Sampled: 7/18/2017 13:32

Sample ID: 17G0685-14

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	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(a)anthracene	0.47	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(a)pyrene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(b)fluoranthene	0.87	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(g,h,i)perylene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Benzo(k)fluoranthene	0.26	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Chrysene	0.89	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Fluoranthene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Indeno(1,2,3-cd)pyrene	0.30	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
2-Methylnaphthalene	0.67	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Naphthalene	0.53	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Phenanthrene	1.3	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL
Pyrene	0.83	0.20	mg/Kg dry	1		SW-846 8270D	7/24/17	7/25/17 15:33	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	64.1	30-130		7/25/17 15:33
2-Fluorobiphenyl	64.4	30-130		7/25/17 15:33
p-Terphenyl-d14	66.2	30-130		7/25/17 15:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-2B Sampled: 7/18/2017 13:32

Sample ID: 17G0685-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-3 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-15

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	7/24/17	7/27/17 1:14	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.8	30-150		7/27/17 1:14
Decachlorobiphenyl [2]	82.4	30-150		7/27/17 1:14
Tetrachloro-m-xylene [1]	92.7	30-150		7/27/17 1:14
Tetrachloro-m-xylene [2]	96.8	30-150		7/27/17 1:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-3 Sampled: 7/18/2017 13:34

Sample ID: 17G0685-15

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	86.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-16

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	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1221 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1232 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1242 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1248 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1254 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1260 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1262 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB
Aroclor-1268 [1]	ND	0.25	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.9	30-150		7/27/17 1:27
Decachlorobiphenyl [2]	91.3	30-150		7/27/17 1:27
Tetrachloro-m-xylene [1]	68.7	30-150		7/27/17 1:27
Tetrachloro-m-xylene [2]	66.5	30-150		7/27/17 1:27

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-37-4 Sampled: 7/18/2017 13:36

Sample ID: 17G0685-16

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	40.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-1 Sampled: 7/18/2017 13:46

Sample ID: 17G0685-17

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	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.7	30-150		7/27/17 1:39
Decachlorobiphenyl [2]	79.8	30-150		7/27/17 1:39
Tetrachloro-m-xylene [1]	92.0	30-150		7/27/17 1:39
Tetrachloro-m-xylene [2]	98.9	30-150		7/27/17 1:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-1 Sampled: 7/18/2017 13:46

Sample ID: 17G0685-17

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	97.1		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-2 Sampled: 7/18/2017 13:48

Sample ID: 17G0685-18

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	7/24/17	7/27/17 1:51	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 1:51	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.3	30-150		7/27/17 1:51
Decachlorobiphenyl [2]	64.7	30-150		7/27/17 1:51
Tetrachloro-m-xylene [1]	77.5	30-150		7/27/17 1:51
Tetrachloro-m-xylene [2]	77.1	30-150		7/27/17 1:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-2 Sampled: 7/18/2017 13:48

Sample ID: 17G0685-18

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	86.7		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-3 Sampled: 7/18/2017 13:50

Sample ID: 17G0685-19

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	7/24/17	7/27/17 2:04	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:04	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.7	30-150		7/27/17 2:04
Decachlorobiphenyl [2]	68.8	30-150		7/27/17 2:04
Tetrachloro-m-xylene [1]	83.1	30-150		7/27/17 2:04
Tetrachloro-m-xylene [2]	84.8	30-150		7/27/17 2:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-3 Sampled: 7/18/2017 13:50

Sample ID: 17G0685-19

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	85.3		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-4 Sampled: 7/18/2017 13:52

Sample ID: 17G0685-20

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	7/24/17	7/27/17 2:16	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/24/17	7/27/17 2:16	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.3	30-150		7/27/17 2:16
Decachlorobiphenyl [2]	75.1	30-150		7/27/17 2:16
Tetrachloro-m-xylene [1]	88.0	30-150		7/27/17 2:16
Tetrachloro-m-xylene [2]	92.1	30-150		7/27/17 2:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0685

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-38-4 Sampled: 7/18/2017 13:52

Sample ID: 17G0685-20

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	72.9		% Wt	1		SM 2540G	7/24/17	7/25/17 9:10	MRL

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

Sample Extraction Data

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0685-01 [WS-AOC12W-SO-41-2]	B182352	07/24/17
17G0685-02 [WS-AOC12W-SO-41-3]	B182352	07/24/17
17G0685-03 [WS-AOC12W-SO-41-4]	B182352	07/24/17
17G0685-04 [WS-AOC12W-SO-36-1]	B182352	07/24/17
17G0685-05 [WS-AOC12W-SO-36-2]	B182352	07/24/17
17G0685-06 [WS-AOC12W-SO-36-3]	B182352	07/24/17
17G0685-07 [WS-AOC12W-SO-36-4]	B182352	07/24/17
17G0685-08 [WS-AOC12W-SO-40-1 (MS)]	B182352	07/24/17
17G0685-09 [WS-AOC12W-SO-40-2]	B182352	07/24/17
17G0685-10 [WS-AOC12W-SO-40-3]	B182352	07/24/17
17G0685-11 [WS-AOC12W-SO-40-4]	B182352	07/24/17
17G0685-12 [WS-AOC12W-SO-37-1]	B182352	07/24/17
17G0685-13 [WS-AOC12W-SO-37-2A]	B182352	07/24/17
17G0685-14 [WS-AOC12W-SO-37-2B]	B182352	07/24/17
17G0685-15 [WS-AOC12W-SO-37-3]	B182352	07/24/17
17G0685-16 [WS-AOC12W-SO-37-4]	B182352	07/24/17
17G0685-17 [WS-AOC12W-SO-38-1]	B182352	07/24/17
17G0685-18 [WS-AOC12W-SO-38-2]	B182352	07/24/17
17G0685-19 [WS-AOC12W-SO-38-3]	B182352	07/24/17
17G0685-20 [WS-AOC12W-SO-38-4]	B182352	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0685-01 [WS-AOC12W-SO-41-2]	B182401	10.1	10.0	07/24/17
17G0685-02 [WS-AOC12W-SO-41-3]	B182401	10.2	10.0	07/24/17
17G0685-03 [WS-AOC12W-SO-41-4]	B182401	10.4	10.0	07/24/17
17G0685-04 [WS-AOC12W-SO-36-1]	B182401	10.1	10.0	07/24/17
17G0685-05 [WS-AOC12W-SO-36-2]	B182401	10.3	10.0	07/24/17
17G0685-06 [WS-AOC12W-SO-36-3]	B182401	10.0	10.0	07/24/17
17G0685-07 [WS-AOC12W-SO-36-4]	B182401	10.8	10.0	07/24/17
17G0685-08 [WS-AOC12W-SO-40-1 (MS)]	B182401	10.1	10.0	07/24/17
17G0685-09 [WS-AOC12W-SO-40-2]	B182401	10.1	10.0	07/24/17
17G0685-10 [WS-AOC12W-SO-40-3]	B182401	10.7	10.0	07/24/17
17G0685-11 [WS-AOC12W-SO-40-4]	B182401	10.3	10.0	07/24/17
17G0685-12 [WS-AOC12W-SO-37-1]	B182401	10.1	10.0	07/24/17
17G0685-13 [WS-AOC12W-SO-37-2A]	B182401	10.0	10.0	07/24/17
17G0685-15 [WS-AOC12W-SO-37-3]	B182401	10.0	10.0	07/24/17
17G0685-16 [WS-AOC12W-SO-37-4]	B182401	10.1	10.0	07/24/17
17G0685-17 [WS-AOC12W-SO-38-1]	B182401	10.3	10.0	07/24/17
17G0685-18 [WS-AOC12W-SO-38-2]	B182401	10.3	10.0	07/24/17
17G0685-19 [WS-AOC12W-SO-38-3]	B182401	10.0	10.0	07/24/17
17G0685-20 [WS-AOC12W-SO-38-4]	B182401	10.5	10.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0685-14 [WS-AOC12W-SO-37-2B]	B182398	30.0	1.00	07/24/17

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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 B182398 - SW-846 3546										
Blank (B182398-BLK1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.34*		mg/Kg wet	3.33		70.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.43*		mg/Kg wet	3.33		73.0	30-130			
Surrogate: p-Terphenyl-d14	*3.03*		mg/Kg wet	3.33		90.8	30-130			
LCS (B182398-BS1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.12	0.17	mg/Kg wet	1.67		67.0	40-140			
Acenaphthylene	1.08	0.17	mg/Kg wet	1.67		64.9	40-140			
Anthracene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Benzo(a)anthracene	1.22	0.17	mg/Kg wet	1.67		73.2	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.14	0.17	mg/Kg wet	1.67		68.4	40-140			
Benzo(g,h,i)perylene	1.31	0.17	mg/Kg wet	1.67		78.4	40-140			
Benzo(k)fluoranthene	1.15	0.17	mg/Kg wet	1.67		69.2	40-140			
Chrysene	1.20	0.17	mg/Kg wet	1.67		72.1	40-140			
Dibenz(a,h)anthracene	1.25	0.17	mg/Kg wet	1.67		75.1	40-140			
Fluoranthene	1.17	0.17	mg/Kg wet	1.67		69.9	40-140			
Fluorene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Indeno(1,2,3-cd)pyrene	1.26	0.17	mg/Kg wet	1.67		75.8	40-140			
2-Methylnaphthalene	1.13	0.17	mg/Kg wet	1.67		67.7	40-140			
Naphthalene	1.07	0.17	mg/Kg wet	1.67		64.4	40-140			
Phenanthrene	1.19	0.17	mg/Kg wet	1.67		71.3	40-140			
Pyrene	1.20	0.17	mg/Kg wet	1.67		72.0	40-140			
Surrogate: Nitrobenzene-d5	*2.55*		mg/Kg wet	3.33		76.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.55*		mg/Kg wet	3.33		76.5	30-130			
Surrogate: p-Terphenyl-d14	*2.81*		mg/Kg wet	3.33		84.3	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182398 - SW-846 3546										
LCS Dup (B182398-BSD1)				Prepared: 07/24/17 Analyzed: 07/25/17						
Acenaphthene	1.18	0.17	mg/Kg wet	1.67		70.9	40-140	5.68	30	
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.6	40-140	5.54	30	
Anthracene	1.28	0.17	mg/Kg wet	1.67		76.5	40-140	6.12	30	
Benzo(a)anthracene	1.31	0.17	mg/Kg wet	1.67		78.7	40-140	7.19	30	
Benzo(a)pyrene	1.31	0.17	mg/Kg wet	1.67		78.5	40-140	7.72	30	
Benzo(b)fluoranthene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	6.59	30	
Benzo(g,h,i)perylene	1.37	0.17	mg/Kg wet	1.67		82.0	40-140	4.46	30	
Benzo(k)fluoranthene	1.22	0.17	mg/Kg wet	1.67		72.9	40-140	5.20	30	
Chrysene	1.30	0.17	mg/Kg wet	1.67		77.7	40-140	7.53	30	
Dibenz(a,h)anthracene	1.34	0.17	mg/Kg wet	1.67		80.3	40-140	6.67	30	
Fluoranthene	1.24	0.17	mg/Kg wet	1.67		74.6	40-140	6.45	30	
Fluorene	1.19	0.17	mg/Kg wet	1.67		71.5	40-140	4.72	30	
Indeno(1,2,3-cd)pyrene	1.30	0.17	mg/Kg wet	1.67		78.2	40-140	3.09	30	
2-Methylnaphthalene	1.22	0.17	mg/Kg wet	1.67		73.1	40-140	7.64	30	
Naphthalene	1.16	0.17	mg/Kg wet	1.67		69.8	40-140	7.99	30	
Phenanthrene	1.28	0.17	mg/Kg wet	1.67		76.6	40-140	7.22	30	
Pyrene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	5.22	30	
Surrogate: Nitrobenzene-d5	*2.77*		mg/Kg wet	3.33		83.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.65*		mg/Kg wet	3.33		79.6	30-130			
Surrogate: p-Terphenyl-d14	*2.93*		mg/Kg wet	3.33		88.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182401 - SW-846 3540C										
Blank (B182401-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							V-05
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							V-05
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.144*		mg/Kg wet	0.200		72.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.200		66.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.164*		mg/Kg wet	0.200		82.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.142*		mg/Kg wet	0.200		70.8	30-150			
LCS (B182401-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		82.1	40-140			V-05
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140			V-05
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.145*		mg/Kg wet	0.200		72.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.143*		mg/Kg wet	0.200		71.4	30-150			
LCS Dup (B182401-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		77.7	40-140	5.81	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.7	40-140	6.89	30	V-05
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		70.3	40-140	8.25	30	
Aroclor-1260 [2C]	0.13	0.020	mg/Kg wet	0.200		66.7	40-140	7.96	30	V-05
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg wet	0.200		76.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg wet	0.200		70.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg wet	0.200		74.8	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 B182401 - SW-846 3540C										
Matrix Spike (B182401-MS1)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.10	mg/Kg dry	0.210	ND	83.5	40-140			
Aroclor-1016 [2C]	0.18	0.10	mg/Kg dry	0.210	ND	86.4	40-140			
Aroclor-1260	0.15	0.10	mg/Kg dry	0.210	ND	70.2	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	66.4	40-140			
Surrogate: Decachlorobiphenyl	*0.139*		mg/Kg dry	0.210		66.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg dry	0.210		72.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.166*		mg/Kg dry	0.210		79.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg dry	0.210		84.2	30-150			
Matrix Spike Dup (B182401-MSD1)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/27/17						
Aroclor-1016	0.19	0.10	mg/Kg dry	0.208	ND	93.4	40-140	10.2	50	
Aroclor-1016 [2C]	0.20	0.10	mg/Kg dry	0.208	ND	95.3	40-140	8.87	50	
Aroclor-1260	0.16	0.10	mg/Kg dry	0.208	ND	76.7	40-140	7.92	50	
Aroclor-1260 [2C]	0.16	0.10	mg/Kg dry	0.208	ND	76.5	40-140	13.1	50	
Surrogate: Decachlorobiphenyl	*0.148*		mg/Kg dry	0.208		71.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg dry	0.208		73.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg dry	0.208		81.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.182*		mg/Kg dry	0.208		87.8	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 B182352 - % Solids										
Duplicate (B182352-DUP5)		**Source: 17G0685-08**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	95.5		% Wt		95.3			0.210	20	
Duplicate (B182352-DUP6)		**Source: 17G0685-09**		Prepared: 07/24/17 Analyzed: 07/25/17						
% Solids	92.1		% Wt		92.7			0.649	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-41-3

Lab Sample ID: 17G0685-02

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-1260	1	0.000	-0.030	0.030	0.37	
	2	0.000	-0.030	0.030	0.36	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-40-3

Lab Sample ID: 17G0685-10

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-1260	1	0.000	-0.030	0.030	0.38	
	2	0.000	-0.030	0.030	0.36	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182401-BS1

Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182401-BSD1 Date(s) Analyzed 07/26/2017 07/26/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.13	7.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182401-MS1 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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.14	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182401-MSD1 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	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.16	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1790685

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 7 of 11

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-41-2	7/18/17	13:17		X	S	U	X								
2	WS-AOC12W-SO-41-3		13:18					X								
3	WS-AOC12W-SO-41-4		13:19					X								
4	WS-AOC12W-SO-36-1		13:20					X								
5	WS-AOC12W-SO-36-2		13:22					X								
6	WS-AOC12W-SO-36-3		13:24					X								
7	WS-AOC12W-SO-36-4		13:26					X								
8	WS-AOC12W-SO-40-1(MS)		13:33					X								
9	WS-AOC12W-SO-40-2		13:34					X								
10	WS-AOC12W-SO-40-3		13:35					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-40-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

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

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

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

Relinquished by: (signature)	Date/Time: 7/18/17	
Received by: (signature)	Date/Time: 7/18/17	
Relinquished by: (signature)	Date/Time: 7/18/17 3pm	
Received by: (signature)	Date/Time: 7/18/17 1700	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	ETPH	SPLP ETPH	PAHs	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-40-4	7/18/17	13:34		X	S	U	X								
12	WS-AOC12W-SO-37-1		13:38					X								
13	WS-AOC12W-SO-37-2A		13:30					X								
14	WS-AOC12W-SO-37-2B		13:32									X				
15	WS-AOC12W-SO-37-3		13:34					X								
16	WS-AOC12W-SO-37-4		13:36					X								
17	WS-AOC12W-SO-38-1		13:46					X								
18	WS-AOC12W-SO-38-2		13:48					X								
19	WS-AOC12W-SO-38-3		13:50					X								
20	WS-AOC12W-SO-38-4		13:52					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature) 7/18/17	Date/Time:
Received by: (signature)	Date/Time: 7/18/17 1500
Relinquished by: (signature)	Date/Time: 7/18/17 5PM
Received by: (signature) 7/18/17	Date/Time: 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

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Table of Contents

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/18/17 Time 1700

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 2.6, 2.8

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

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

Unused Media

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

Comments:

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: 17G0685

Laboratory Sample ID(s):

17G0685-01 thru 17G0685-20

Sample Date(s):

07/18/2017

List RCP Methods Used:

SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **07/28/17**

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

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

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

August 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: 17G0774

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G0774-01	7
17G0774-02	9
17G0774-03	11
17G0774-04	13
17G0774-05	15
17G0774-06	17
17G0774-07	19
17G0774-08	21
17G0774-09	24
17G0774-10	26
17G0774-11	28
17G0774-12	30
17G0774-13	33
17G0774-14	35
17G0774-15	37
17G0774-16	39
17G0774-17	41
17G0774-18	43
17G0774-19	45
17G0774-20	49
Sample Preparation Information	51
QC Data	53

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 53

B182604 53

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 55

B182503 55

Petroleum Hydrocarbons Analyses 57

B182589 57

Metals Analyses (Total) 58

B182194 58

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 59

B182552 59

Flag/Qualifier Summary 60

Certifications 61

Chain of Custody/Sample Receipt 63

con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0774

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-47-1	17G0774-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-47-2	17G0774-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-47-3	17G0774-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-1	17G0774-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-2	17G0774-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-54-3	17G0774-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-1A	17G0774-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-1B	17G0774-08	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-58-2	17G0774-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-58-3	17G0774-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-1A	17G0774-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-1B	17G0774-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-64-2	17G0774-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-64-3	17G0774-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-1	17G0774-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-2	17G0774-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-67-3	17G0774-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-49-1A	17G0774-18	Soil		SM 2540G	
				SW-846 8082A	

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0774

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-49-1B	17G0774-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-49-2	17G0774-20	Soil		SM 2540G	
				SW-846 8082A	

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

CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Tod E. Kopyscinski
Laboratory Director

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-1 Sampled: 7/19/2017 08:55

Sample ID: 17G0774-01

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	7/25/17	7/27/17 23:15	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.7	30-150		7/27/17 23:15
Decachlorobiphenyl [2]	78.6	30-150		7/27/17 23:15
Tetrachloro-m-xylene [1]	76.2	30-150		7/27/17 23:15
Tetrachloro-m-xylene [2]	71.1	30-150		7/27/17 23:15

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-1 Sampled: 7/19/2017 08:55

Sample ID: 17G0774-01

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	96.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-2 Sampled: 7/19/2017 08:57

Sample ID: 17G0774-02

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	7/25/17	7/27/17 23:33	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.8	30-150		7/27/17 23:33
Decachlorobiphenyl [2]	62.2	30-150		7/27/17 23:33
Tetrachloro-m-xylene [1]	60.6	30-150		7/27/17 23:33
Tetrachloro-m-xylene [2]	59.1	30-150		7/27/17 23:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-2 Sampled: 7/19/2017 08:57

Sample ID: 17G0774-02

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	87.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-3 Sampled: 7/19/2017 08:59

Sample ID: 17G0774-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/27/17 23:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.3	30-150		7/27/17 23:52
Decachlorobiphenyl [2]	97.6	30-150		7/27/17 23:52
Tetrachloro-m-xylene [1]	93.5	30-150		7/27/17 23:52
Tetrachloro-m-xylene [2]	86.6	30-150		7/27/17 23:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-47-3 Sampled: 7/19/2017 08:59

Sample ID: 17G0774-03

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	60.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-1 Sampled: 7/19/2017 09:24

Sample ID: 17G0774-04

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	7/25/17	7/28/17 0:10	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		7/28/17 0:10
Decachlorobiphenyl [2]	107	30-150		7/28/17 0:10
Tetrachloro-m-xylene [1]	103	30-150		7/28/17 0:10
Tetrachloro-m-xylene [2]	97.1	30-150		7/28/17 0:10

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-1 Sampled: 7/19/2017 09:24

Sample ID: 17G0774-04

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	95.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-2 Sampled: 7/19/2017 09:26

Sample ID: 17G0774-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.1	30-150		7/28/17 0:28
Decachlorobiphenyl [2]	72.1	30-150		7/28/17 0:28
Tetrachloro-m-xylene [1]	69.2	30-150		7/28/17 0:28
Tetrachloro-m-xylene [2]	66.2	30-150		7/28/17 0:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-2 Sampled: 7/19/2017 09:26

Sample ID: 17G0774-05

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.5		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-3 Sampled: 7/19/2017 09:28

Sample ID: 17G0774-06

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	7/25/17	7/28/17 0:46	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 0:46	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		7/28/17 0:46
Decachlorobiphenyl [2]	85.8	30-150		7/28/17 0:46
Tetrachloro-m-xylene [1]	82.2	30-150		7/28/17 0:46
Tetrachloro-m-xylene [2]	78.4	30-150		7/28/17 0:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-54-3 Sampled: 7/19/2017 09:28

Sample ID: 17G0774-06

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	78.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1A Sampled: 7/19/2017 09:38

Sample ID: 17G0774-07

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	7/25/17	7/28/17 1:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.4	30-150		7/28/17 1:04
Decachlorobiphenyl [2]	94.7	30-150		7/28/17 1:04
Tetrachloro-m-xylene [1]	92.2	30-150		7/28/17 1:04
Tetrachloro-m-xylene [2]	86.5	30-150		7/28/17 1:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1A Sampled: 7/19/2017 09:38

Sample ID: 17G0774-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	58	11	mg/Kg dry	1		CTDEP ETPH	7/26/17	8/3/17 0:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	65.0	50-150		8/3/17 0:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-1B Sampled: 7/19/2017 09:39

Sample ID: 17G0774-08

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	94.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-2 Sampled: 7/19/2017 09:40

Sample ID: 17G0774-09

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	7/25/17	7/28/17 1:22	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 1:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.9	30-150		7/28/17 1:22
Decachlorobiphenyl [2]	82.5	30-150		7/28/17 1:22
Tetrachloro-m-xylene [1]	77.1	30-150		7/28/17 1:22
Tetrachloro-m-xylene [2]	69.9	30-150		7/28/17 1:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-2 Sampled: 7/19/2017 09:40

Sample ID: 17G0774-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-3 Sampled: 7/19/2017 09:41

Sample ID: 17G0774-10

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	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:29	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.7	30-150		7/28/17 2:29
Decachlorobiphenyl [2]	87.2	30-150		7/28/17 2:29
Tetrachloro-m-xylene [1]	86.7	30-150		7/28/17 2:29
Tetrachloro-m-xylene [2]	82.0	30-150		7/28/17 2:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-58-3 Sampled: 7/19/2017 09:41

Sample ID: 17G0774-10

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	62.1		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1A Sampled: 7/19/2017 10:09

Sample ID: 17G0774-11

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	7/25/17	7/28/17 2:48	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 2:48	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.1	30-150		7/28/17 2:48
Decachlorobiphenyl [2]	98.1	30-150		7/28/17 2:48
Tetrachloro-m-xylene [1]	97.5	30-150		7/28/17 2:48
Tetrachloro-m-xylene [2]	92.6	30-150		7/28/17 2:48

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1A Sampled: 7/19/2017 10:09

Sample ID: 17G0774-11

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	95.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	270	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 22:25	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	93.0	50-150		8/2/17 22:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	9.1	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-1B Sampled: 7/19/2017 10:11

Sample ID: 17G0774-12

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	91.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-2 Sampled: 7/19/2017 10:13

Sample ID: 17G0774-13

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	7/25/17	7/28/17 3:06	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:06	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		7/28/17 3:06
Decachlorobiphenyl [2]	93.3	30-150		7/28/17 3:06
Tetrachloro-m-xylene [1]	87.8	30-150		7/28/17 3:06
Tetrachloro-m-xylene [2]	81.0	30-150		7/28/17 3:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-2 Sampled: 7/19/2017 10:13

Sample ID: 17G0774-13

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	80.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-3 Sampled: 7/19/2017 10:14

Sample ID: 17G0774-14

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	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:24	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.9	30-150		7/28/17 3:24
Decachlorobiphenyl [2]	89.3	30-150		7/28/17 3:24
Tetrachloro-m-xylene [1]	83.4	30-150		7/28/17 3:24
Tetrachloro-m-xylene [2]	80.4	30-150		7/28/17 3:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-64-3 Sampled: 7/19/2017 10:14

Sample ID: 17G0774-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	69.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-1 Sampled: 7/19/2017 10:16

Sample ID: 17G0774-15

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	7/25/17	7/28/17 3:42	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 3:42	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.5	30-150		7/28/17 3:42
Decachlorobiphenyl [2]	92.6	30-150		7/28/17 3:42
Tetrachloro-m-xylene [1]	88.1	30-150		7/28/17 3:42
Tetrachloro-m-xylene [2]	83.7	30-150		7/28/17 3:42

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-1 Sampled: 7/19/2017 10:16

Sample ID: 17G0774-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-2 Sampled: 7/19/2017 10:17

Sample ID: 17G0774-16

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	7/25/17	7/28/17 4:00	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:00	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.6	30-150		7/28/17 4:00
Decachlorobiphenyl [2]	93.9	30-150		7/28/17 4:00
Tetrachloro-m-xylene [1]	87.9	30-150		7/28/17 4:00
Tetrachloro-m-xylene [2]	79.6	30-150		7/28/17 4:00

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: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-2 Sampled: 7/19/2017 10:17

Sample ID: 17G0774-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-3 Sampled: 7/19/2017 10:18

Sample ID: 17G0774-17

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	7/25/17	7/28/17 4:18	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:18	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.1	30-150		7/28/17 4:18
Decachlorobiphenyl [2]	62.6	30-150		7/28/17 4:18
Tetrachloro-m-xylene [1]	58.0	30-150		7/28/17 4:18
Tetrachloro-m-xylene [2]	55.8	30-150		7/28/17 4:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-67-3 Sampled: 7/19/2017 10:18

Sample ID: 17G0774-17

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	78.2		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1A Sampled: 7/19/2017 10:41

Sample ID: 17G0774-18

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	7/25/17	7/28/17 4:36	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:36	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.8	30-150		7/28/17 4:36
Decachlorobiphenyl [2]	81.3	30-150		7/28/17 4:36
Tetrachloro-m-xylene [1]	86.0	30-150		7/28/17 4:36
Tetrachloro-m-xylene [2]	82.1	30-150		7/28/17 4:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1A Sampled: 7/19/2017 10:41

Sample ID: 17G0774-18

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

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	7/26/17	7/28/17 22:03	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Chrysene	0.40	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
2-Methylnaphthalene	0.34	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Phenanthrene	0.66	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL
Pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:03	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	48.6	30-130		7/28/17 22:03
2-Fluorobiphenyl	41.7	30-130		7/28/17 22:03
p-Terphenyl-d14	51.1	30-130		7/28/17 22:03

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	290	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/3/17 11:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	51.2	50-150		8/3/17 11:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	16	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-1B Sampled: 7/19/2017 10:42

Sample ID: 17G0774-19

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	89.5		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-2 Sampled: 7/19/2017 10:43

Sample ID: 17G0774-20

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	7/25/17	7/28/17 4:55	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 4:55	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.2	30-150		7/28/17 4:55
Decachlorobiphenyl [2]	90.8	30-150		7/28/17 4:55
Tetrachloro-m-xylene [1]	87.6	30-150		7/28/17 4:55
Tetrachloro-m-xylene [2]	79.1	30-150		7/28/17 4:55

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0774

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-2 Sampled: 7/19/2017 10:43

Sample ID: 17G0774-20

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	85.1		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-08 [WS-AOC12W-SO-58-1B]	B182589	30.0	1.00	07/26/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182589	30.0	1.00	07/26/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0774-01 [WS-AOC12W-SO-47-1]	B182552	07/26/17
17G0774-02 [WS-AOC12W-SO-47-2]	B182552	07/26/17
17G0774-03 [WS-AOC12W-SO-47-3]	B182552	07/26/17
17G0774-04 [WS-AOC12W-SO-54-1]	B182552	07/26/17
17G0774-05 [WS-AOC12W-SO-54-2]	B182552	07/26/17
17G0774-06 [WS-AOC12W-SO-54-3]	B182552	07/26/17
17G0774-07 [WS-AOC12W-SO-58-1A]	B182552	07/26/17
17G0774-08 [WS-AOC12W-SO-58-1B]	B182552	07/26/17
17G0774-09 [WS-AOC12W-SO-58-2]	B182552	07/26/17
17G0774-10 [WS-AOC12W-SO-58-3]	B182552	07/26/17
17G0774-11 [WS-AOC12W-SO-64-1A]	B182552	07/26/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182552	07/26/17
17G0774-13 [WS-AOC12W-SO-64-2]	B182552	07/26/17
17G0774-14 [WS-AOC12W-SO-64-3]	B182552	07/26/17
17G0774-15 [WS-AOC12W-SO-67-1]	B182552	07/26/17
17G0774-16 [WS-AOC12W-SO-67-2]	B182552	07/26/17
17G0774-17 [WS-AOC12W-SO-67-3]	B182552	07/26/17
17G0774-18 [WS-AOC12W-SO-49-1A]	B182552	07/26/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182552	07/26/17
17G0774-20 [WS-AOC12W-SO-49-2]	B182552	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-08 [WS-AOC12W-SO-58-1B]	B182194	1.01	50.0	07/21/17
17G0774-12 [WS-AOC12W-SO-64-1B]	B182194	1.02	50.0	07/21/17
17G0774-19 [WS-AOC12W-SO-49-1B]	B182194	1.05	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-01 [WS-AOC12W-SO-47-1]	B182503	10.0	10.0	07/25/17
17G0774-02 [WS-AOC12W-SO-47-2]	B182503	10.0	10.0	07/25/17
17G0774-03 [WS-AOC12W-SO-47-3]	B182503	10.0	10.0	07/25/17
17G0774-04 [WS-AOC12W-SO-54-1]	B182503	10.0	10.0	07/25/17
17G0774-05 [WS-AOC12W-SO-54-2]	B182503	10.0	10.0	07/25/17
17G0774-06 [WS-AOC12W-SO-54-3]	B182503	10.0	10.0	07/25/17
17G0774-07 [WS-AOC12W-SO-58-1A]	B182503	10.0	10.0	07/25/17
17G0774-09 [WS-AOC12W-SO-58-2]	B182503	10.0	10.0	07/25/17
17G0774-10 [WS-AOC12W-SO-58-3]	B182503	10.0	10.0	07/25/17
17G0774-11 [WS-AOC12W-SO-64-1A]	B182503	10.0	10.0	07/25/17
17G0774-13 [WS-AOC12W-SO-64-2]	B182503	10.0	10.0	07/25/17
17G0774-14 [WS-AOC12W-SO-64-3]	B182503	10.0	10.0	07/25/17
17G0774-15 [WS-AOC12W-SO-67-1]	B182503	10.0	10.0	07/25/17

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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
17G0774-16 [WS-AOC12W-SO-67-2]	B182503	10.0	10.0	07/25/17
17G0774-17 [WS-AOC12W-SO-67-3]	B182503	10.0	10.0	07/25/17
17G0774-18 [WS-AOC12W-SO-49-1A]	B182503	10.0	10.0	07/25/17
17G0774-20 [WS-AOC12W-SO-49-2]	B182503	10.0	10.0	07/25/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0774-19 [WS-AOC12W-SO-49-1B]	B182604	30.0	1.00	07/26/17

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	30-130			

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182503 - SW-846 3540C										
Blank (B182503-BLK1)				Prepared: 07/25/17 Analyzed: 07/26/17						
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	*0.160*		mg/Kg wet	0.200		80.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		86.2	30-150			
LCS (B182503-BS1)				Prepared: 07/25/17 Analyzed: 07/26/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.6	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.5	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		68.2	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.4	40-140			
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg wet	0.200		89.1	30-150			
LCS Dup (B182503-BSD1)				Prepared: 07/25/17 Analyzed: 07/26/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	7.38	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	7.78	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	5.72	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.0	40-140	6.14	30	
Surrogate: Decachlorobiphenyl	*0.169*		mg/Kg wet	0.200		84.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182503 - SW-846 3540C										
Matrix Spike (B182503-MS1)		**Source: 17G0774-04**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.23	0.10	mg/Kg dry	0.209	ND	112	40-140			
Aroclor-1016 [2C]	0.24	0.10	mg/Kg dry	0.209	ND	116	40-140			
Aroclor-1260	0.22	0.10	mg/Kg dry	0.209	ND	106	40-140			
Aroclor-1260 [2C]	0.23	0.10	mg/Kg dry	0.209	ND	110	40-140			
Surrogate: Decachlorobiphenyl	*0.213*		mg/Kg dry	0.209		102	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.217*		mg/Kg dry	0.209		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.205*		mg/Kg dry	0.209		98.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg dry	0.209		91.2	30-150			
Matrix Spike Dup (B182503-MSD1)		**Source: 17G0774-04**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.24	0.10	mg/Kg dry	0.209	ND	113	40-140	1.35	50	
Aroclor-1016 [2C]	0.25	0.10	mg/Kg dry	0.209	ND	121	40-140	4.95	50	
Aroclor-1260	0.23	0.10	mg/Kg dry	0.209	ND	110	40-140	4.01	50	
Aroclor-1260 [2C]	0.24	0.10	mg/Kg dry	0.209	ND	115	40-140	4.92	50	
Surrogate: Decachlorobiphenyl	*0.216*		mg/Kg dry	0.209		103	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.222*		mg/Kg dry	0.209		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.206*		mg/Kg dry	0.209		98.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.194*		mg/Kg dry	0.209		92.6	30-150			

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

QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182552 - % Solids										
Duplicate (B182552-DUP1)		**Source: 17G0774-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	96.1		% Wt		96.6			0.519	20	
Duplicate (B182552-DUP2)		**Source: 17G0774-04**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	95.2		% Wt		95.7			0.524	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.

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

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

1760774

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
	WS-AOC12W-SO-47-1	7/19/17	8:55		X	S	U	X								
	WS-AOC12W-SO-47-2	7/19/17	8:57					X								
	WS-AOC12W-SO-47-3		8:59					X								
	WS-AOC12W-SO-54-1 (MS-MSD)		9:24					X								
	WS-AOC12W-SO-54-2		9:26					X								
	WS-AOC12W-SO-54-3		9:28					X								
	WS-AOC12W-SO-58-1A		9:38					X								
	WS-AOC12W-SO-58-1B		9:39								X		X			
	WS-AOC12W-SO-58-2		9:40					X								
	WS-AOC12W-SO-58-3		9:41					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-54-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mace	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mace	Date/Time: 7/19/17 1740
Received by: (signature) [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
OTHER:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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

CHAIN OF CUSTODY RECORD

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
	WS-AOC12W-SO-64-1A	7/19/17	10:09		X	S	U	X								
	WS-AOC12W-SO-64-1B		10:11								X		X			
	WS-AOC12W-SO 64-2		10:13					X								
	WS-AOC12W-SO-64-3		10:14					X								
	WS-AOC12W-SO-67-1		10:16					X								
	WS-AOC12W-SO-67-2		10:17					X								
	WS-AOC12W-SO-67-3		10:18					X								
	WS-AOC12W-SO-49-1A		10:41					X								
	WS-AOC12W-SO-49-1B		10:42							X	X		X			
	WS-AOC12W-SO-49-2		10:43					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
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X = Sodium Hydroxide
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O = Other (please define)

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mauri	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mauri	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
GW RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 2 Actual Temp - 3.4, 2.9, 4.1

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\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

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: 17G0774

Laboratory Sample ID(s):

17G0774-01 thru 17G0774-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **08/03/17**

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

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

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

August 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: 17G0775

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 6

Sample Results 7

17G0775−01 7

17G0775−02 9

17G0775−03 11

17G0775−04 13

17G0775−05 15

17G0775−06 17

17G0775−07 19

17G0775−08 21

17G0775−09 23

17G0775−10 25

17G0775−11 27

17G0775−12 29

17G0775−13 31

17G0775−14 35

17G0775−15 37

17G0775−16 39

17G0775−17 41

17G0775−18 43

17G0775−19 47

17G0775−20 49

Sample Preparation Information 51

QC Data 53

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 53

B182604 53

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 55

B182504 55

Petroleum Hydrocarbons Analyses 57

B182589 57

Metals Analyses (Total) 58

B182194 58

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 59

B182549 59

Dual Column RPD Report 60

Flag/Qualifier Summary 64

Certifications 65

CÜain of Custody/Sample Receipt 67

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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: 17G0775

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-49-3	17G0775-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-1	17G0775-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-2	17G0775-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-71-3	17G0775-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-1	17G0775-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-2	17G0775-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-52-3	17G0775-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-1A	17G0775-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-1B	17G0775-09	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-56-2	17G0775-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-56-3	17G0775-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-2A	17G0775-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-2B	17G0775-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-75-1	17G0775-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-3	17G0775-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-75-4	17G0775-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-1A	17G0775-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-1B	17G0775-18	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	

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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: 17G0775

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-60-2	17G0775-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-60-3	17G0775-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

MS-12

Matrix spike recovery and matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a high bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

17G0775-18[WS-AOC12W-SO-60-1B], B182589-MS1, B182589-MSD1

SW-846 6010C-D

Qualifications:

R-02

Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

Analyte & Samples(s) Qualified:

Arsenic

17G0775-18[WS-AOC12W-SO-60-1B], B182194-DUP1

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

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-3 Sampled: 7/19/2017 10:44

Sample ID: 17G0775-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:05	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/28/17 15:05
Decachlorobiphenyl [2]	80.8	30-150		7/28/17 15:05
Tetrachloro-m-xylene [1]	82.8	30-150		7/28/17 15:05
Tetrachloro-m-xylene [2]	83.5	30-150		7/28/17 15:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-49-3 Sampled: 7/19/2017 10:44

Sample ID: 17G0775-01

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	72.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-1 Sampled: 7/19/2017 10:56

Sample ID: 17G0775-02

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	7/25/17	7/28/17 15:23	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:23	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	51.0	30-150		7/28/17 15:23
Decachlorobiphenyl [2]	56.4	30-150		7/28/17 15:23
Tetrachloro-m-xylene [1]	58.0	30-150		7/28/17 15:23
Tetrachloro-m-xylene [2]	58.6	30-150		7/28/17 15:23

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-1 Sampled: 7/19/2017 10:56

Sample ID: 17G0775-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-2 Sampled: 7/19/2017 10:58

Sample ID: 17G0775-03

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	7/25/17	7/28/17 15:41	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:41	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.1	30-150		7/28/17 15:41
Decachlorobiphenyl [2]	85.3	30-150		7/28/17 15:41
Tetrachloro-m-xylene [1]	83.6	30-150		7/28/17 15:41
Tetrachloro-m-xylene [2]	85.8	30-150		7/28/17 15:41

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-2 Sampled: 7/19/2017 10:58

Sample ID: 17G0775-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-3 Sampled: 7/19/2017 11:00

Sample ID: 17G0775-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 15:59	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.6	30-150		7/28/17 15:59
Decachlorobiphenyl [2]	87.8	30-150		7/28/17 15:59
Tetrachloro-m-xylene [1]	85.5	30-150		7/28/17 15:59
Tetrachloro-m-xylene [2]	88.2	30-150		7/28/17 15:59

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-71-3 Sampled: 7/19/2017 11:00

Sample ID: 17G0775-04

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	74.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-1 Sampled: 7/19/2017 11:01

Sample ID: 17G0775-05

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 16:16	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:16	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/28/17 16:16
Decachlorobiphenyl [2]	87.6	30-150		7/28/17 16:16
Tetrachloro-m-xylene [1]	83.0	30-150		7/28/17 16:16
Tetrachloro-m-xylene [2]	84.4	30-150		7/28/17 16:16

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-1 Sampled: 7/19/2017 11:01

Sample ID: 17G0775-05

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	93.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-2 Sampled: 7/19/2017 11:02

Sample ID: 17G0775-06

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 16:34	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:34	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.3	30-150		7/28/17 16:34
Decachlorobiphenyl [2]	84.5	30-150		7/28/17 16:34
Tetrachloro-m-xylene [1]	83.4	30-150		7/28/17 16:34
Tetrachloro-m-xylene [2]	82.8	30-150		7/28/17 16:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-2 Sampled: 7/19/2017 11:02

Sample ID: 17G0775-06

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	88.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-3 Sampled: 7/19/2017 11:03

Sample ID: 17G0775-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 16:52	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.2	30-150		7/28/17 16:52
Decachlorobiphenyl [2]	71.7	30-150		7/28/17 16:52
Tetrachloro-m-xylene [1]	69.1	30-150		7/28/17 16:52
Tetrachloro-m-xylene [2]	72.3	30-150		7/28/17 16:52

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-52-3 Sampled: 7/19/2017 11:03

Sample ID: 17G0775-07

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	71.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1A Sampled: 7/19/2017 11:15

Sample ID: 17G0775-08

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 17:10	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:10	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.3	30-150		7/28/17 17:10
Decachlorobiphenyl [2]	94.7	30-150		7/28/17 17:10
Tetrachloro-m-xylene [1]	92.7	30-150		7/28/17 17:10
Tetrachloro-m-xylene [2]	94.8	30-150		7/28/17 17:10

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1A Sampled: 7/19/2017 11:15

Sample ID: 17G0775-08

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	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1B Sampled: 7/19/2017 11:16

Sample ID: 17G0775-09

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	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Chrysene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Fluoranthene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
2-Methylnaphthalene	0.36	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Phenanthrene	0.64	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL
Pyrene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 22:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.1	30-130		7/28/17 22:26
2-Fluorobiphenyl	48.1	30-130		7/28/17 22:26
p-Terphenyl-d14	67.9	30-130		7/28/17 22:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-1B Sampled: 7/19/2017 11:16

Sample ID: 17G0775-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-2 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-10

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	7/25/17	7/28/17 17:28	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:28	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/28/17 17:28
Decachlorobiphenyl [2]	82.7	30-150		7/28/17 17:28
Tetrachloro-m-xylene [1]	77.3	30-150		7/28/17 17:28
Tetrachloro-m-xylene [2]	77.8	30-150		7/28/17 17:28

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-2 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-3 Sampled: 7/19/2017 11:18

Sample ID: 17G0775-11

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 17:45	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.0	30-150		7/28/17 17:45
Decachlorobiphenyl [2]	89.5	30-150		7/28/17 17:45
Tetrachloro-m-xylene [1]	85.0	30-150		7/28/17 17:45
Tetrachloro-m-xylene [2]	87.1	30-150		7/28/17 17:45

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-56-3 Sampled: 7/19/2017 11:18

Sample ID: 17G0775-11

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	74.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2A Sampled: 7/19/2017 11:13

Sample ID: 17G0775-12

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	7/25/17	7/28/17 19:04	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:04	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.7	30-150		7/28/17 19:04
Decachlorobiphenyl [2]	81.6	30-150		7/28/17 19:04
Tetrachloro-m-xylene [1]	78.5	30-150		7/28/17 19:04
Tetrachloro-m-xylene [2]	79.4	30-150		7/28/17 19:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2A Sampled: 7/19/2017 11:13

Sample ID: 17G0775-12

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	92.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

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	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Chrysene	0.46	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
2-Methylnaphthalene	0.22	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Phenanthrene	0.41	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:39	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	37.4	30-130		7/28/17 21:39
2-Fluorobiphenyl	35.4	30-130		7/28/17 21:39
p-Terphenyl-d14	48.8	30-130		7/28/17 21:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	180	58	mg/Kg dry	5		CTDEP ETPH	7/26/17	7/27/17 19:17	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	57.6	50-150		7/27/17 19:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	27	2.8	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-2B Sampled: 7/19/2017 11:15

Sample ID: 17G0775-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-1 Sampled: 7/19/2017 11:11

Sample ID: 17G0775-14

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	7/25/17	7/28/17 19:22	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:22	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.3	30-150		7/28/17 19:22
Decachlorobiphenyl [2]	85.6	30-150		7/28/17 19:22
Tetrachloro-m-xylene [1]	83.3	30-150		7/28/17 19:22
Tetrachloro-m-xylene [2]	85.4	30-150		7/28/17 19:22

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-1 Sampled: 7/19/2017 11:11

Sample ID: 17G0775-14

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	96.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-3 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-15

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	7/25/17	7/28/17 19:40	TG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:40	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.6	30-150		7/28/17 19:40
Decachlorobiphenyl [2]	92.0	30-150		7/28/17 19:40
Tetrachloro-m-xylene [1]	81.9	30-150		7/28/17 19:40
Tetrachloro-m-xylene [2]	83.4	30-150		7/28/17 19:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-3 Sampled: 7/19/2017 11:17

Sample ID: 17G0775-15

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	81.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-4 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 19:57	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.0	30-150		7/28/17 19:57
Decachlorobiphenyl [2]	82.6	30-150		7/28/17 19:57
Tetrachloro-m-xylene [1]	83.3	30-150		7/28/17 19:57
Tetrachloro-m-xylene [2]	86.0	30-150		7/28/17 19:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-75-4 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-16

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	78.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1A Sampled: 7/19/2017 11:17

Sample ID: 17G0775-17

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	7/25/17	7/28/17 20:15	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:15	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.2	30-150		7/28/17 20:15
Decachlorobiphenyl [2]	88.9	30-150		7/28/17 20:15
Tetrachloro-m-xylene [1]	85.8	30-150		7/28/17 20:15
Tetrachloro-m-xylene [2]	87.7	30-150		7/28/17 20:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1A Sampled: 7/19/2017 11:17

Sample ID: 17G0775-17

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	93.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

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	7/26/17	7/27/17 20:14	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(b)fluoranthene	0.24	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Chrysene	0.38	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Fluoranthene	0.29	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
2-Methylnaphthalene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Phenanthrene	0.49	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL
Pyrene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/27/17 20:14	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	44.2	30-130		7/27/17 20:14
2-Fluorobiphenyl	39.7	30-130		7/27/17 20:14
p-Terphenyl-d14	48.2	30-130		7/27/17 20:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	250	110	mg/Kg dry	10	MS-12	CTDEP ETPH	7/26/17	8/2/17 22:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	90.8	50-150		8/2/17 22:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	17	2.7	mg/Kg dry	1	R-02	SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-1B Sampled: 7/19/2017 11:18

Sample ID: 17G0775-18

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	88.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-2 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-19

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	7/25/17	7/28/17 20:33	TG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:33	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.1	30-150		7/28/17 20:33
Decachlorobiphenyl [2]	83.8	30-150		7/28/17 20:33
Tetrachloro-m-xylene [1]	79.6	30-150		7/28/17 20:33
Tetrachloro-m-xylene [2]	80.1	30-150		7/28/17 20:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-2 Sampled: 7/19/2017 11:19

Sample ID: 17G0775-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-3 Sampled: 7/19/2017 11:20

Sample ID: 17G0775-20

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	7/25/17	7/28/17 20:51	TG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/25/17	7/28/17 20:51	TG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		7/28/17 20:51
Decachlorobiphenyl [2]	85.9	30-150		7/28/17 20:51
Tetrachloro-m-xylene [1]	83.2	30-150		7/28/17 20:51
Tetrachloro-m-xylene [2]	84.6	30-150		7/28/17 20:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0775

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-60-3 Sampled: 7/19/2017 11:20

Sample ID: 17G0775-20

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	78.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-13 [WS-AOC12W-SO-75-2B]	B182589	30.0	1.00	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0775-01 [WS-AOC12W-SO-49-3]	B182549	07/26/17
17G0775-02 [WS-AOC12W-SO-71-1]	B182549	07/26/17
17G0775-03 [WS-AOC12W-SO-71-2]	B182549	07/26/17
17G0775-04 [WS-AOC12W-SO-71-3]	B182549	07/26/17
17G0775-05 [WS-AOC12W-SO-52-1]	B182549	07/26/17
17G0775-06 [WS-AOC12W-SO-52-2]	B182549	07/26/17
17G0775-07 [WS-AOC12W-SO-52-3]	B182549	07/26/17
17G0775-08 [WS-AOC12W-SO-56-1A]	B182549	07/26/17
17G0775-09 [WS-AOC12W-SO-56-1B]	B182549	07/26/17
17G0775-10 [WS-AOC12W-SO-56-2]	B182549	07/26/17
17G0775-11 [WS-AOC12W-SO-56-3]	B182549	07/26/17
17G0775-12 [WS-AOC12W-SO-75-2A]	B182549	07/26/17
17G0775-13 [WS-AOC12W-SO-75-2B]	B182549	07/26/17
17G0775-14 [WS-AOC12W-SO-75-1]	B182549	07/26/17
17G0775-15 [WS-AOC12W-SO-75-3]	B182549	07/26/17
17G0775-16 [WS-AOC12W-SO-75-4]	B182549	07/26/17
17G0775-17 [WS-AOC12W-SO-60-1A]	B182549	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182549	07/26/17
17G0775-19 [WS-AOC12W-SO-60-2]	B182549	07/26/17
17G0775-20 [WS-AOC12W-SO-60-3]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-13 [WS-AOC12W-SO-75-2B]	B182194	1.03	50.0	07/21/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182194	1.06	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-01 [WS-AOC12W-SO-49-3]	B182504	10.0	10.0	07/25/17
17G0775-02 [WS-AOC12W-SO-71-1]	B182504	10.0	10.0	07/25/17
17G0775-03 [WS-AOC12W-SO-71-2]	B182504	10.0	10.0	07/25/17
17G0775-04 [WS-AOC12W-SO-71-3]	B182504	10.0	10.0	07/25/17
17G0775-05 [WS-AOC12W-SO-52-1]	B182504	10.0	10.0	07/25/17
17G0775-06 [WS-AOC12W-SO-52-2]	B182504	10.0	10.0	07/25/17
17G0775-07 [WS-AOC12W-SO-52-3]	B182504	10.0	10.0	07/25/17
17G0775-08 [WS-AOC12W-SO-56-1A]	B182504	10.0	10.0	07/25/17
17G0775-10 [WS-AOC12W-SO-56-2]	B182504	10.0	10.0	07/25/17
17G0775-11 [WS-AOC12W-SO-56-3]	B182504	10.0	10.0	07/25/17
17G0775-12 [WS-AOC12W-SO-75-2A]	B182504	10.0	10.0	07/25/17
17G0775-14 [WS-AOC12W-SO-75-1]	B182504	10.0	10.0	07/25/17
17G0775-15 [WS-AOC12W-SO-75-3]	B182504	10.0	10.0	07/25/17
17G0775-16 [WS-AOC12W-SO-75-4]	B182504	10.0	10.0	07/25/17
17G0775-17 [WS-AOC12W-SO-60-1A]	B182504	10.0	10.0	07/25/17

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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
17G0775-19 [WS-AOC12W-SO-60-2]	B182504	10.0	10.0	07/25/17
17G0775-20 [WS-AOC12W-SO-60-3]	B182504	10.0	10.0	07/25/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0775-09 [WS-AOC12W-SO-56-1B]	B182604	30.0	1.00	07/26/17
17G0775-13 [WS-AOC12W-SO-75-2B]	B182604	30.0	1.00	07/26/17
17G0775-18 [WS-AOC12W-SO-60-1B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182504 - SW-846 3540C										
Blank (B182504-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	*0.180*		mg/Kg wet	0.200		90.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.168*		mg/Kg wet	0.200		83.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.165*		mg/Kg wet	0.200		82.4	30-150			
LCS (B182504-BS1)				Prepared: 07/25/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.0	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.4	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.0	40-140			
Surrogate: Decachlorobiphenyl	*0.178*		mg/Kg wet	0.200		88.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.4	30-150			
LCS Dup (B182504-BSD1)				Prepared: 07/25/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.9	40-140	1.07	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.2	40-140	3.22	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.3	40-140	2.40	30	
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		72.2	40-140	1.06	30	
Surrogate: Decachlorobiphenyl	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.165*		mg/Kg wet	0.200		82.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182504 - SW-846 3540C										
Matrix Spike (B182504-MS1)		**Source: 17G0775-17**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.214	ND	83.7	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.214	ND	89.1	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.214	ND	71.5	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.214	ND	79.1	40-140			
Surrogate: Decachlorobiphenyl	*0.165*		mg/Kg dry	0.214		76.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.214		83.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg dry	0.214		80.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.178*		mg/Kg dry	0.214		83.0	30-150			
Matrix Spike Dup (B182504-MSD1)		**Source: 17G0775-17**		Prepared: 07/25/17 Analyzed: 07/28/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.214	ND	88.5	40-140	5.56	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.214	ND	89.8	40-140	0.755	50	
Aroclor-1260	0.16	0.11	mg/Kg dry	0.214	ND	73.0	40-140	2.08	50	
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.214	ND	80.6	40-140	1.91	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.214		76.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.214		83.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg dry	0.214		79.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.177*		mg/Kg dry	0.214		82.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC		%REC Limits	RPD	RPD Limit	Notes
Batch B182589 - SW-846 3546											
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	ND	10	mg/Kg wet								
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1		50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1		60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1		50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17							
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0		60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4		50-150			
Matrix Spike (B182589-MS1)	**Source: 17G0775-18**			Prepared: 07/26/17 Analyzed: 08/02/17							
CT ETPH	311	110	mg/Kg dry	37.6	250	**161**	*	50-150			MS-12
Surrogate: o-Terphenyl	*4.15*		mg/Kg dry	3.76		110		50-150			
Matrix Spike Dup (B182589-MSD1)	**Source: 17G0775-18**			Prepared: 07/26/17 Analyzed: 08/02/17							
CT ETPH	341	110	mg/Kg dry	37.6	250	**241**	*	50-150	9.20	30	MS-12
Surrogate: o-Terphenyl	*4.17*		mg/Kg dry	3.76		111		50-150			

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

QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD		RPD Limit	Notes
Batch B182194 - SW-846 3050B											
Blank (B182194-BLK1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet								
LCS (B182194-BS1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1				
LCS Dup (B182194-BSD1)				Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723		30	
Duplicate (B182194-DUP1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	11.7	2.6	mg/Kg dry		17.2			**38.0**	*	35	R-02
Matrix Spike (B182194-MS1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/24/17						
Arsenic	36.7	2.6	mg/Kg dry	25.9	17.2	75.3	75-125				
Matrix Spike Dup (B182194-MSD1)	**Source: 17G0775-18**			Prepared: 07/21/17	Analyzed: 07/25/17						
Arsenic	37.1	2.6	mg/Kg dry	25.9	17.2	77.0	75-125	1.21		35	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182549 - % Solids										
Duplicate (B182549-DUP1)		**Source: 17G0775-17**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	93.5		% Wt		93.3			0.214	20	
Duplicate (B182549-DUP2)		**Source: 17G0775-18**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	91.0		% Wt		88.7			2.56	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182504-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.18	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182504-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.14	13.3

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182504-MS1 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-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182504-MSD1 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-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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FLAG/QUALIFIER SUMMARY

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

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

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

MS-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.
R-02	Duplicate RPD is outside of control limits. Outlier can be attributed to sample non-homogeneity encountered during sample prep.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-49-3	7/19/17	10:44		X	S	U	X								
2	WS-AOC12W-SO-71-1		10:56					X								
3	WS-AOC12W-SO-71-2		10:58					X								
4	WS-AOC12W-SO-71-3		11:00					X								
5	WS-AOC12W-SO-52-1		11:01					X								
6	WS-AOC12W-SO-52-2		11:02					X								
7	WS-AOC12W-SO-52-3		11:03					X								
8	WS-AOC12W-SO-56-1A		11:15					X								
9	WS-AOC12W-SO-56-1B		11:16							X						
10	WS-AOC12W-SO-56-2		11:17					X								

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Mair	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mair	Date/Time: 7/19/17 1740
Received by: (signature) [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic						# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-56-3	7/19/17	11:18		X	S	U	X													
12	WS-AOC12W-SO-75-2A		11:13					X													
13	WS-AOC12W-SO-75-2B		11:15							X	X		X								
14	WS-AOC12W-SO-75-1		11:11					X													
15	WS-AOC12W-SO-75-3		11:17					X													
16	WS-AOC12W-SO-75-4		11:19					X													
17	WS-AOC12W-SO-60-1A (MS-MSD)		11:17					X													
18	WS-AOC12W-SO-60-1B (MS-MSD)		11:18							X	X		X								
19	WS-AOC12W-SO-60-2		11:19					X													
20	WS-AOC12W-SO-60-3		11:20					X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS - AOC12W - SO - 60 - 1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS - AOC12W - SO - 60 - 1B (MS-MSD)

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature) Tom Maier	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Maier	Date/Time: 7/19/17 1740
Received by: (signature) [signature]	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

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

NELAC and AIHA-LAP, LLC Accredited

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Table of Contents

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	24
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.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0775

Laboratory Sample ID(s):

17G0775-01 thru 17G0775-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 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: 17G0776

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0776-01	6
17G0776-02	8
17G0776-03	10
17G0776-04	12
17G0776-05	14
17G0776-06	16
17G0776-07	18
17G0776-08	20
17G0776-09	22
17G0776-10	24
17G0776-11	26
17G0776-12	28
17G0776-13	30
17G0776-14	32
17G0776-15	34
17G0776-16	36
17G0776-17	38
17G0776-18	41
17G0776-19	43
17G0776-20	45
Sample Preparation Information	47
QC Data	49

Table of Contents (continued)

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 49

B182528 49

Petroleum Hydrocarbons Analyses 51

B182589 51

Metals Analyses (Total) 52

B182194 52

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 53

B182549 53

Dual Column RPD Report 54

Flag/Qualifier Summary 58

Certifications 59

CÜain of Custody/Sample Receipt 60

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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: 17G0776

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-62-1	17G0776-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-62-2	17G0776-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-62-3	17G0776-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-1	17G0776-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-2	17G0776-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-3	17G0776-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-78-4	17G0776-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-1	17G0776-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-2	17G0776-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-3	17G0776-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-81-4	17G0776-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-1	17G0776-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-2	17G0776-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-66-3	17G0776-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-1	17G0776-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-2A	17G0776-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-2B	17G0776-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-84-3	17G0776-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-84-4	17G0776-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-69-1	17G0776-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-1 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-01

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	7/26/17	7/29/17 12:10	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:10	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.1	30-150		7/29/17 12:10
Decachlorobiphenyl [2]	88.5	30-150		7/29/17 12:10
Tetrachloro-m-xylene [1]	83.6	30-150		7/29/17 12:10
Tetrachloro-m-xylene [2]	83.8	30-150		7/29/17 12:10

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-1 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-01

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	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-2 Sampled: 7/19/2017 11:45

Sample ID: 17G0776-02

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	7/26/17	7/29/17 12:28	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.7	30-150		7/29/17 12:28
Decachlorobiphenyl [2]	91.9	30-150		7/29/17 12:28
Tetrachloro-m-xylene [1]	85.9	30-150		7/29/17 12:28
Tetrachloro-m-xylene [2]	87.2	30-150		7/29/17 12:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-2 Sampled: 7/19/2017 11:45

Sample ID: 17G0776-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-3 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-03

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	7/26/17	7/29/17 12:46	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 12:46	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	41.1	30-150		7/29/17 12:46
Decachlorobiphenyl [2]	46.2	30-150		7/29/17 12:46
Tetrachloro-m-xylene [1]	48.6	30-150		7/29/17 12:46
Tetrachloro-m-xylene [2]	50.0	30-150		7/29/17 12:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-62-3 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-1 Sampled: 7/19/2017 11:40

Sample ID: 17G0776-04

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	7/26/17	7/29/17 13:03	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.2	30-150		7/29/17 13:03
Decachlorobiphenyl [2]	88.5	30-150		7/29/17 13:03
Tetrachloro-m-xylene [1]	81.4	30-150		7/29/17 13:03
Tetrachloro-m-xylene [2]	84.0	30-150		7/29/17 13:03

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-1 Sampled: 7/19/2017 11:40

Sample ID: 17G0776-04

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	98.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-2 Sampled: 7/19/2017 11:42

Sample ID: 17G0776-05

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	7/26/17	7/29/17 13:21	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.6	30-150		7/29/17 13:21
Decachlorobiphenyl [2]	87.6	30-150		7/29/17 13:21
Tetrachloro-m-xylene [1]	85.2	30-150		7/29/17 13:21
Tetrachloro-m-xylene [2]	86.4	30-150		7/29/17 13:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-2 Sampled: 7/19/2017 11:42

Sample ID: 17G0776-05

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	95.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-3 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-06

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	7/26/17	7/29/17 13:39	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		7/29/17 13:39
Decachlorobiphenyl [2]	82.3	30-150		7/29/17 13:39
Tetrachloro-m-xylene [1]	83.8	30-150		7/29/17 13:39
Tetrachloro-m-xylene [2]	86.4	30-150		7/29/17 13:39

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-3 Sampled: 7/19/2017 11:44

Sample ID: 17G0776-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-4 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 13:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.1	30-150		7/29/17 13:57
Decachlorobiphenyl [2]	87.6	30-150		7/29/17 13:57
Tetrachloro-m-xylene [1]	86.0	30-150		7/29/17 13:57
Tetrachloro-m-xylene [2]	86.2	30-150		7/29/17 13:57

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-78-4 Sampled: 7/19/2017 11:46

Sample ID: 17G0776-07

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	72.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-1 Sampled: 7/19/2017 12:18

Sample ID: 17G0776-08

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	7/26/17	7/29/17 14:14	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1254 [2]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:14	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.2	30-150		7/29/17 14:14
Decachlorobiphenyl [2]	78.3	30-150		7/29/17 14:14
Tetrachloro-m-xylene [1]	80.0	30-150		7/29/17 14:14
Tetrachloro-m-xylene [2]	81.3	30-150		7/29/17 14:14

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-1 Sampled: 7/19/2017 12:18

Sample ID: 17G0776-08

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	98.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-2 Sampled: 7/19/2017 12:20

Sample ID: 17G0776-09

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	7/26/17	7/29/17 14:32	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 14:32	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.5	30-150		7/29/17 14:32
Decachlorobiphenyl [2]	78.7	30-150		7/29/17 14:32
Tetrachloro-m-xylene [1]	76.5	30-150		7/29/17 14:32
Tetrachloro-m-xylene [2]	77.1	30-150		7/29/17 14:32

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-2 Sampled: 7/19/2017 12:20

Sample ID: 17G0776-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-3 Sampled: 7/19/2017 12:22

Sample ID: 17G0776-10

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	7/26/17	7/29/17 15:38	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/29/17 15:38
Decachlorobiphenyl [2]	85.8	30-150		7/29/17 15:38
Tetrachloro-m-xylene [1]	80.5	30-150		7/29/17 15:38
Tetrachloro-m-xylene [2]	82.0	30-150		7/29/17 15:38

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-3 Sampled: 7/19/2017 12:22

Sample ID: 17G0776-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-4 Sampled: 7/19/2017 12:24

Sample ID: 17G0776-11

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 15:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.8	30-150		7/29/17 15:56
Decachlorobiphenyl [2]	90.8	30-150		7/29/17 15:56
Tetrachloro-m-xylene [1]	88.1	30-150		7/29/17 15:56
Tetrachloro-m-xylene [2]	89.4	30-150		7/29/17 15:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-81-4 Sampled: 7/19/2017 12:24

Sample ID: 17G0776-11

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	78.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-1 Sampled: 7/19/2017 12:03

Sample ID: 17G0776-12

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	7/26/17	7/29/17 16:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.9	30-150		7/29/17 16:13
Decachlorobiphenyl [2]	81.0	30-150		7/29/17 16:13
Tetrachloro-m-xylene [1]	76.6	30-150		7/29/17 16:13
Tetrachloro-m-xylene [2]	77.2	30-150		7/29/17 16:13

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-1 Sampled: 7/19/2017 12:03

Sample ID: 17G0776-12

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	94.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-2 Sampled: 7/19/2017 12:04

Sample ID: 17G0776-13

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	7/26/17	7/29/17 16:31	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:31	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.2	30-150		7/29/17 16:31
Decachlorobiphenyl [2]	80.9	30-150		7/29/17 16:31
Tetrachloro-m-xylene [1]	75.5	30-150		7/29/17 16:31
Tetrachloro-m-xylene [2]	76.3	30-150		7/29/17 16:31

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-2 Sampled: 7/19/2017 12:04

Sample ID: 17G0776-13

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	90.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-3 Sampled: 7/19/2017 12:05

Sample ID: 17G0776-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 16:49	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.2	30-150		7/29/17 16:49
Decachlorobiphenyl [2]	74.8	30-150		7/29/17 16:49
Tetrachloro-m-xylene [1]	71.2	30-150		7/29/17 16:49
Tetrachloro-m-xylene [2]	72.6	30-150		7/29/17 16:49

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-66-3 Sampled: 7/19/2017 12:05

Sample ID: 17G0776-14

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	74.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-1 Sampled: 7/19/2017 12:26

Sample ID: 17G0776-15

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	7/26/17	7/29/17 17:06	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.2	30-150		7/29/17 17:06
Decachlorobiphenyl [2]	89.6	30-150		7/29/17 17:06
Tetrachloro-m-xylene [1]	86.0	30-150		7/29/17 17:06
Tetrachloro-m-xylene [2]	86.8	30-150		7/29/17 17:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-1 Sampled: 7/19/2017 12:26

Sample ID: 17G0776-15

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	97.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2A Sampled: 7/19/2017 12:28

Sample ID: 17G0776-16

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	7/26/17	7/29/17 17:24	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.5	30-150		7/29/17 17:24
Decachlorobiphenyl [2]	82.6	30-150		7/29/17 17:24
Tetrachloro-m-xylene [1]	77.4	30-150		7/29/17 17:24
Tetrachloro-m-xylene [2]	78.9	30-150		7/29/17 17:24

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2A Sampled: 7/19/2017 12:28

Sample ID: 17G0776-16

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	540	450	mg/Kg dry	20		CTDEP ETPH	7/26/17	8/2/17 23:36	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	86.3	50-150		8/2/17 23:36

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	19	2.6	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-2B Sampled: 7/19/2017 12:30

Sample ID: 17G0776-17

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	89.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-3 Sampled: 7/19/2017 12:32

Sample ID: 17G0776-18

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	7/26/17	7/29/17 17:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 17:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/29/17 17:42
Decachlorobiphenyl [2]	87.1	30-150		7/29/17 17:42
Tetrachloro-m-xylene [1]	79.5	30-150		7/29/17 17:42
Tetrachloro-m-xylene [2]	81.6	30-150		7/29/17 17:42

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-3 Sampled: 7/19/2017 12:32

Sample ID: 17G0776-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-4 Sampled: 7/19/2017 12:34

Sample ID: 17G0776-19

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	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.2	30-150		7/29/17 18:00
Decachlorobiphenyl [2]	88.3	30-150		7/29/17 18:00
Tetrachloro-m-xylene [1]	80.2	30-150		7/29/17 18:00
Tetrachloro-m-xylene [2]	82.1	30-150		7/29/17 18:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-84-4 Sampled: 7/19/2017 12:34

Sample ID: 17G0776-19

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	65.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-1 Sampled: 7/19/2017 13:36

Sample ID: 17G0776-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/29/17 18:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.5	30-150		7/29/17 18:17
Decachlorobiphenyl [2]	84.2	30-150		7/29/17 18:17
Tetrachloro-m-xylene [1]	81.8	30-150		7/29/17 18:17
Tetrachloro-m-xylene [2]	83.2	30-150		7/29/17 18:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0776

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-1 Sampled: 7/19/2017 13:36

Sample ID: 17G0776-20

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	97.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-17 [WS-AOC12W-SO-84-2B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0776-01 [WS-AOC12W-SO-62-1]	B182549	07/26/17
17G0776-02 [WS-AOC12W-SO-62-2]	B182549	07/26/17
17G0776-03 [WS-AOC12W-SO-62-3]	B182549	07/26/17
17G0776-04 [WS-AOC12W-SO-78-1]	B182549	07/26/17
17G0776-05 [WS-AOC12W-SO-78-2]	B182549	07/26/17
17G0776-06 [WS-AOC12W-SO-78-3]	B182549	07/26/17
17G0776-07 [WS-AOC12W-SO-78-4]	B182549	07/26/17
17G0776-08 [WS-AOC12W-SO-81-1]	B182549	07/26/17
17G0776-09 [WS-AOC12W-SO-81-2]	B182549	07/26/17
17G0776-10 [WS-AOC12W-SO-81-3]	B182549	07/26/17
17G0776-11 [WS-AOC12W-SO-81-4]	B182549	07/26/17
17G0776-12 [WS-AOC12W-SO-66-1]	B182549	07/26/17
17G0776-13 [WS-AOC12W-SO-66-2]	B182549	07/26/17
17G0776-14 [WS-AOC12W-SO-66-3]	B182549	07/26/17
17G0776-15 [WS-AOC12W-SO-84-1]	B182549	07/26/17
17G0776-16 [WS-AOC12W-SO-84-2A]	B182549	07/26/17
17G0776-17 [WS-AOC12W-SO-84-2B]	B182549	07/26/17
17G0776-18 [WS-AOC12W-SO-84-3]	B182549	07/26/17
17G0776-19 [WS-AOC12W-SO-84-4]	B182549	07/26/17
17G0776-20 [WS-AOC12W-SO-69-1]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-17 [WS-AOC12W-SO-84-2B]	B182194	1.06	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0776-01 [WS-AOC12W-SO-62-1]	B182528	10.0	10.0	07/26/17
17G0776-02 [WS-AOC12W-SO-62-2]	B182528	10.0	10.0	07/26/17
17G0776-03 [WS-AOC12W-SO-62-3]	B182528	10.0	10.0	07/26/17
17G0776-04 [WS-AOC12W-SO-78-1]	B182528	10.0	10.0	07/26/17
17G0776-05 [WS-AOC12W-SO-78-2]	B182528	10.0	10.0	07/26/17
17G0776-06 [WS-AOC12W-SO-78-3]	B182528	10.0	10.0	07/26/17
17G0776-07 [WS-AOC12W-SO-78-4]	B182528	10.0	10.0	07/26/17
17G0776-08 [WS-AOC12W-SO-81-1]	B182528	10.0	10.0	07/26/17
17G0776-09 [WS-AOC12W-SO-81-2]	B182528	10.0	10.0	07/26/17
17G0776-10 [WS-AOC12W-SO-81-3]	B182528	10.0	10.0	07/26/17
17G0776-11 [WS-AOC12W-SO-81-4]	B182528	10.0	10.0	07/26/17
17G0776-12 [WS-AOC12W-SO-66-1]	B182528	10.0	10.0	07/26/17
17G0776-13 [WS-AOC12W-SO-66-2]	B182528	10.0	10.0	07/26/17
17G0776-14 [WS-AOC12W-SO-66-3]	B182528	10.0	10.0	07/26/17
17G0776-15 [WS-AOC12W-SO-84-1]	B182528	10.0	10.0	07/26/17
17G0776-16 [WS-AOC12W-SO-84-2A]	B182528	10.0	10.0	07/26/17
17G0776-18 [WS-AOC12W-SO-84-3]	B182528	10.0	10.0	07/26/17

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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
17G0776-19 [WS-AOC12W-SO-84-4]	B182528	10.0	10.0	07/26/17
17G0776-20 [WS-AOC12W-SO-69-1]	B182528	10.0	10.0	07/26/17

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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 B182528 - SW-846 3540C										
Blank (B182528-BLK1)				Prepared: 07/26/17 Analyzed: 07/29/17						
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	*0.164*		mg/Kg wet	0.200		81.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.175*		mg/Kg wet	0.200		87.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.162*		mg/Kg wet	0.200		81.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		83.9	30-150			
LCS (B182528-BS1)				Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		78.8	40-140			
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		79.0	40-140			
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		67.9	40-140			
Aroclor-1260 [2C]	0.14	0.020	mg/Kg wet	0.200		70.9	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.180*		mg/Kg wet	0.200		89.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.168*		mg/Kg wet	0.200		84.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.6	30-150			
LCS Dup (B182528-BSD1)				Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.4	40-140	2.04	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		80.2	40-140	1.41	30	
Aroclor-1260	0.14	0.020	mg/Kg wet	0.200		71.6	40-140	5.25	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	5.16	30	
Surrogate: Decachlorobiphenyl	*0.173*		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.187*		mg/Kg wet	0.200		93.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.174*		mg/Kg wet	0.200		87.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182528 - SW-846 3540C										
Matrix Spike (B182528-MS1)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.211	ND	87.5	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	88.5	40-140			
Aroclor-1260	0.15	0.11	mg/Kg dry	0.211	ND	69.7	40-140			
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.211	ND	78.6	40-140			
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.211		75.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.178*		mg/Kg dry	0.211		84.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.177*		mg/Kg dry	0.211		83.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.181*		mg/Kg dry	0.211		85.6	30-150			
Matrix Spike Dup (B182528-MSD1)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/29/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.211	ND	87.2	40-140	0.295	50	
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.211	ND	89.8	40-140	1.41	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.211	ND	70.9	40-140	1.70	50	
Aroclor-1260 [2C]	0.17	0.11	mg/Kg dry	0.211	ND	79.3	40-140	0.931	50	
Surrogate: Decachlorobiphenyl	*0.163*		mg/Kg dry	0.211		77.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.211		84.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.176*		mg/Kg dry	0.211		83.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg dry	0.211		83.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182549 - % Solids										
Duplicate (B182549-DUP3)		**Source: 17G0776-12**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	94.3		% Wt		94.6			0.318	20	
Duplicate (B182549-DUP4)		**Source: 17G0776-13**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	91.0		% Wt		90.3			0.772	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182528-BS1 Date(s) Analyzed: 07/29/2017 07/29/2017

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	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182528-BSD1 Date(s) Analyzed: 07/29/2017 07/29/2017

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	0.16	
	2	0.000	-0.030	0.030	0.16	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.15	6.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182528-MS1 Date(s) Analyzed: 07/29/2017 07/29/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182528-MSD1 Date(s) Analyzed: 07/29/2017 07/29/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.17	12.5

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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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

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

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

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con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic
1	WS-AOC12W-SO-62-1	7/19/17	11:44		X	S	U	X					
2	WS-AOC12W-SO-62-2		11:45					X					
3	WS-AOC12W-SO-62-3		11:46					X					
4	WS-AOC12W-SO-78-1		11:40					X					
5	WS-AOC12W-SO-78-2		11:42					X					
6	WS-AOC12W-SO-78-3		11:44					X					
7	WS-AOC12W-SO-78-4		11:46					X					
8	WS-AOC12W-SO-81-1		12:18					X					
9	WS-AOC12W-SO-81-2		12:20					X					
10	WS-AOC12W-SO-81-3		12:22					X					

# of Containers	
[2] Preservation Code	
[3] Container Code	

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mau	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mau	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

1760776

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-81-4	7/19/17	12:24		X	S	U	X								
12	WS-AOC12W-SO-66-1 (MS-MSD)		12:03					X								
13	WS-AOC12W-SO-66-2		12:04					X								
14	WS-AOC12W-SO-66-3		12:05					X								
15	WS-AOC12W-SO-84-1		12:26					X								
16	WS-AOC12W-SO-84-2A		12:28					X								
17	WS-AOC12W-SO-84-2B		12:30								X		X			
18	WS-AOC12W-SO-84-3		12:32					X								
19	WS-AOC12W-SO-84-4		12:34					X								
20	WS-AOC12W-SO-69-1		13:36					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-66-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mau	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mau	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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 7/19/17 Time 1740

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

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

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17G0776

Laboratory Sample ID(s):

17G0776-01 thru 17G0776-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 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: 17G0777

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 6

Sample Results 7

17G0777−01 7

17G0777−02 9

17G0777−03 11

17G0777−04 13

17G0777−05 17

17G0777−06 19

17G0777−07 21

17G0777−08 23

17G0777−09 25

17G0777−10 27

17G0777−11 29

17G0777−12 31

17G0777−13 33

17G0777−14 35

17G0777−15 37

17G0777−16 39

17G0777−17 41

17G0777−18 43

17G0777−19 45

17G0777−20 47

Sample Preparation Information 49

QC Data 51

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 51

B182604 51

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 53

B182529 53

Petroleum Hydrocarbons Analyses 55

B182589 55

Metals Analyses (Total) 56

B182194 56

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 57

B182549 57

Dual Column RPD Report 58

Flag/Qualifier Summary 62

Certifications 63

CÜain of Custody/Sample Receipt 65

con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0777

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-69-2	17G0777-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-69-3	17G0777-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-1A	17G0777-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-1B	17G0777-04	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-73-2	17G0777-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-73-3	17G0777-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-1	17G0777-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-2A	17G0777-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-2B	17G0777-09	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-85-3	17G0777-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-85-4	17G0777-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-1	17G0777-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-2	17G0777-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-3	17G0777-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-82-4	17G0777-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-1	17G0777-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-2	17G0777-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-3	17G0777-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-77-4	17G0777-19	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0777

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-79-1	17G0777-20	Soil		SM 2540G SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

E

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

Analyte & Samples(s) Qualified:

Benzo(b)fluoranthene
17G0777-09[WS-AOC12W-SO-85-2B]

Fluoranthene
17G0777-09[WS-AOC12W-SO-85-2B]

Pyrene
17G0777-09[WS-AOC12W-SO-85-2B]

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

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-2 Sampled: 7/19/2017 13:38

Sample ID: 17G0777-01

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	7/26/17	7/28/17 17:40	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.1	30-150		7/28/17 17:40
Decachlorobiphenyl [2]	99.7	30-150		7/28/17 17:40
Tetrachloro-m-xylene [1]	88.5	30-150		7/28/17 17:40
Tetrachloro-m-xylene [2]	88.3	30-150		7/28/17 17:40

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-2 Sampled: 7/19/2017 13:38

Sample ID: 17G0777-01

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	95.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-3 Sampled: 7/19/2017 13:40

Sample ID: 17G0777-02

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	7/26/17	7/28/17 17:58	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 17:58	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.6	30-150		7/28/17 17:58
Decachlorobiphenyl [2]	86.9	30-150		7/28/17 17:58
Tetrachloro-m-xylene [1]	78.8	30-150		7/28/17 17:58
Tetrachloro-m-xylene [2]	82.1	30-150		7/28/17 17:58

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-69-3 Sampled: 7/19/2017 13:40

Sample ID: 17G0777-02

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	82.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1A Sampled: 7/19/2017 13:57

Sample ID: 17G0777-03

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	7/26/17	7/28/17 18:15	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:15	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.4	30-150		7/28/17 18:15
Decachlorobiphenyl [2]	97.4	30-150		7/28/17 18:15
Tetrachloro-m-xylene [1]	95.6	30-150		7/28/17 18:15
Tetrachloro-m-xylene [2]	107	30-150		7/28/17 18:15

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1A Sampled: 7/19/2017 13:57

Sample ID: 17G0777-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

con-test® ANALYTICAL LABORATORY

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(b)fluoranthene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Chrysene	0.43	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Fluoranthene	0.31	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
2-Methylnaphthalene	0.98	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Naphthalene	0.39	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Phenanthrene	1.2	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL
Pyrene	0.30	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	71.8	30-130		7/31/17 13:29
2-Fluorobiphenyl	69.6	30-130		7/31/17 13:29
p-Terphenyl-d14	83.3	30-130		7/31/17 13:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	260	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 18:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	101	50-150		8/2/17 18:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	4.7	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-1B Sampled: 7/19/2017 13:58

Sample ID: 17G0777-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-2 Sampled: 7/19/2017 13:59

Sample ID: 17G0777-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:33	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/28/17 18:33
Decachlorobiphenyl [2]	92.9	30-150		7/28/17 18:33
Tetrachloro-m-xylene [1]	85.1	30-150		7/28/17 18:33
Tetrachloro-m-xylene [2]	89.0	30-150		7/28/17 18:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-2 Sampled: 7/19/2017 13:59

Sample ID: 17G0777-05

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	84.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-3 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-06

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	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 18:50	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.5	30-150		7/28/17 18:50
Decachlorobiphenyl [2]	109	30-150		7/28/17 18:50
Tetrachloro-m-xylene [1]	98.4	30-150		7/28/17 18:50
Tetrachloro-m-xylene [2]	109	30-150		7/28/17 18:50

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-73-3 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-06

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	69.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-1 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-07

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	7/26/17	7/28/17 19:08	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:08	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/28/17 19:08
Decachlorobiphenyl [2]	92.3	30-150		7/28/17 19:08
Tetrachloro-m-xylene [1]	88.6	30-150		7/28/17 19:08
Tetrachloro-m-xylene [2]	94.1	30-150		7/28/17 19:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-1 Sampled: 7/19/2017 14:00

Sample ID: 17G0777-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2A Sampled: 7/19/2017 14:02

Sample ID: 17G0777-08

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:26	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	65.6	30-150		7/28/17 19:26
Decachlorobiphenyl [2]	86.0	30-150		7/28/17 19:26
Tetrachloro-m-xylene [1]	80.9	30-150		7/28/17 19:26
Tetrachloro-m-xylene [2]	80.8	30-150		7/28/17 19:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2A Sampled: 7/19/2017 14:02

Sample ID: 17G0777-08

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	78.4		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2B Sampled: 7/19/2017 14:04

Sample ID: 17G0777-09

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	0.50	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Acenaphthene	ND	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Acenaphthylene	1.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Acenaphthylene	1.5	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Anthracene	2.5	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Anthracene	2.2	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(a)anthracene	5.4	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(a)anthracene	5.3	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(a)pyrene	6.2	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(a)pyrene	5.9	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(b)fluoranthene	8.5	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(b)fluoranthene	7.8	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(g,h,i)perylene	4.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(g,h,i)perylene	4.4	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Benzo(k)fluoranthene	2.9	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Benzo(k)fluoranthene	3.1	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Chrysene	6.2	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Chrysene	6.1	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Dibenz(a,h)anthracene	0.58	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Dibenz(a,h)anthracene	ND	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Fluoranthene	11	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Fluoranthene	10	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Fluorene	0.94	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Fluorene	0.80	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Indeno(1,2,3-cd)pyrene	4.6	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Indeno(1,2,3-cd)pyrene	4.4	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
2-Methylnaphthalene	3.0	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
2-Methylnaphthalene	2.9	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Naphthalene	5.8	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Naphthalene	5.7	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Phenanthrene	6.9	0.36	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Phenanthrene	6.6	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL
Pyrene	12	0.36	mg/Kg dry	1	E	SW-846 8270D	7/26/17	7/31/17 13:54	BGL
Pyrene	12	0.71	mg/Kg dry	2		SW-846 8270D	7/26/17	7/31/17 14:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	61.4	30-130		7/31/17 13:54
Nitrobenzene-d5	58.9	30-130		7/31/17 14:51
2-Fluorobiphenyl	62.9	30-130		7/31/17 13:54
2-Fluorobiphenyl	60.4	30-130		7/31/17 14:51
p-Terphenyl-d14	80.3	30-130		7/31/17 13:54
p-Terphenyl-d14	79.4	30-130		7/31/17 14:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-2B Sampled: 7/19/2017 14:04

Sample ID: 17G0777-09

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	47.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-3 Sampled: 7/19/2017 14:06

Sample ID: 17G0777-10

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	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 19:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.8	30-150		7/28/17 19:43
Decachlorobiphenyl [2]	78.0	30-150		7/28/17 19:43
Tetrachloro-m-xylene [1]	82.1	30-150		7/28/17 19:43
Tetrachloro-m-xylene [2]	82.4	30-150		7/28/17 19:43

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-3 Sampled: 7/19/2017 14:06

Sample ID: 17G0777-10

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	60.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-4 Sampled: 7/19/2017 14:08

Sample ID: 17G0777-11

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	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.6	30-150		7/28/17 20:01
Decachlorobiphenyl [2]	93.1	30-150		7/28/17 20:01
Tetrachloro-m-xylene [1]	79.3	30-150		7/28/17 20:01
Tetrachloro-m-xylene [2]	81.3	30-150		7/28/17 20:01

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-85-4 Sampled: 7/19/2017 14:08

Sample ID: 17G0777-11

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	58.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-1 Sampled: 7/19/2017 14:10

Sample ID: 17G0777-12

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	7/26/17	7/28/17 20:18	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 20:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.5	30-150		7/28/17 20:18
Decachlorobiphenyl [2]	91.9	30-150		7/28/17 20:18
Tetrachloro-m-xylene [1]	76.7	30-150		7/28/17 20:18
Tetrachloro-m-xylene [2]	79.1	30-150		7/28/17 20:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-1 Sampled: 7/19/2017 14:10

Sample ID: 17G0777-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-2 Sampled: 7/19/2017 14:12

Sample ID: 17G0777-13

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	7/26/17	7/28/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.8	30-150		7/28/17 21:19
Decachlorobiphenyl [2]	107	30-150		7/28/17 21:19
Tetrachloro-m-xylene [1]	81.9	30-150		7/28/17 21:19
Tetrachloro-m-xylene [2]	85.5	30-150		7/28/17 21:19

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-2 Sampled: 7/19/2017 14:12

Sample ID: 17G0777-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-3 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.4	30-150		7/28/17 21:37
Decachlorobiphenyl [2]	96.8	30-150		7/28/17 21:37
Tetrachloro-m-xylene [1]	87.1	30-150		7/28/17 21:37
Tetrachloro-m-xylene [2]	88.6	30-150		7/28/17 21:37

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-3 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-14

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	77.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-4 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 21:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		7/28/17 21:54
Decachlorobiphenyl [2]	84.7	30-150		7/28/17 21:54
Tetrachloro-m-xylene [1]	78.5	30-150		7/28/17 21:54
Tetrachloro-m-xylene [2]	78.0	30-150		7/28/17 21:54

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-82-4 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-15

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	76.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-1 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-16

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	7/26/17	7/28/17 22:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.6	30-150		7/28/17 22:12
Decachlorobiphenyl [2]	84.8	30-150		7/28/17 22:12
Tetrachloro-m-xylene [1]	79.8	30-150		7/28/17 22:12
Tetrachloro-m-xylene [2]	81.3	30-150		7/28/17 22:12

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-1 Sampled: 7/19/2017 14:14

Sample ID: 17G0777-16

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	93.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-2 Sampled: 7/19/2017 14:15

Sample ID: 17G0777-17

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	7/26/17	7/28/17 22:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.5	30-150		7/28/17 22:29
Decachlorobiphenyl [2]	87.3	30-150		7/28/17 22:29
Tetrachloro-m-xylene [1]	87.1	30-150		7/28/17 22:29
Tetrachloro-m-xylene [2]	90.1	30-150		7/28/17 22:29

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-2 Sampled: 7/19/2017 14:15

Sample ID: 17G0777-17

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-3 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-18

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	7/26/17	7/28/17 22:47	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 22:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.8	30-150		7/28/17 22:47
Decachlorobiphenyl [2]	92.1	30-150		7/28/17 22:47
Tetrachloro-m-xylene [1]	88.3	30-150		7/28/17 22:47
Tetrachloro-m-xylene [2]	88.4	30-150		7/28/17 22:47

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-3 Sampled: 7/19/2017 14:16

Sample ID: 17G0777-18

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.7		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-4 Sampled: 7/19/2017 14:17

Sample ID: 17G0777-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.1	30-150		7/28/17 23:04
Decachlorobiphenyl [2]	85.0	30-150		7/28/17 23:04
Tetrachloro-m-xylene [1]	90.7	30-150		7/28/17 23:04
Tetrachloro-m-xylene [2]	98.7	30-150		7/28/17 23:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-77-4 Sampled: 7/19/2017 14:17

Sample ID: 17G0777-19

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	73.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-1 Sampled: 7/19/2017 14:30

Sample ID: 17G0777-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	7/28/17 23:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.0	30-150		7/28/17 23:22
Decachlorobiphenyl [2]	84.9	30-150		7/28/17 23:22
Tetrachloro-m-xylene [1]	93.3	30-150		7/28/17 23:22
Tetrachloro-m-xylene [2]	103	30-150		7/28/17 23:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0777

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-1 Sampled: 7/19/2017 14:30

Sample ID: 17G0777-20

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	98.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182589	30.0	1.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0777-01 [WS-AOC12W-SO-69-2]	B182549	07/26/17
17G0777-02 [WS-AOC12W-SO-69-3]	B182549	07/26/17
17G0777-03 [WS-AOC12W-SO-73-1A]	B182549	07/26/17
17G0777-04 [WS-AOC12W-SO-73-1B]	B182549	07/26/17
17G0777-05 [WS-AOC12W-SO-73-2]	B182549	07/26/17
17G0777-06 [WS-AOC12W-SO-73-3]	B182549	07/26/17
17G0777-07 [WS-AOC12W-SO-85-1]	B182549	07/26/17
17G0777-08 [WS-AOC12W-SO-85-2A]	B182549	07/26/17
17G0777-09 [WS-AOC12W-SO-85-2B]	B182549	07/26/17
17G0777-10 [WS-AOC12W-SO-85-3]	B182549	07/26/17
17G0777-11 [WS-AOC12W-SO-85-4]	B182549	07/26/17
17G0777-12 [WS-AOC12W-SO-82-1]	B182549	07/26/17
17G0777-13 [WS-AOC12W-SO-82-2]	B182549	07/26/17
17G0777-14 [WS-AOC12W-SO-82-3]	B182549	07/26/17
17G0777-15 [WS-AOC12W-SO-82-4]	B182549	07/26/17
17G0777-16 [WS-AOC12W-SO-77-1]	B182549	07/26/17
17G0777-17 [WS-AOC12W-SO-77-2]	B182549	07/26/17
17G0777-18 [WS-AOC12W-SO-77-3]	B182549	07/26/17
17G0777-19 [WS-AOC12W-SO-77-4]	B182549	07/26/17
17G0777-20 [WS-AOC12W-SO-79-1]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182194	1.01	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-01 [WS-AOC12W-SO-69-2]	B182529	10.0	10.0	07/26/17
17G0777-02 [WS-AOC12W-SO-69-3]	B182529	10.0	10.0	07/26/17
17G0777-03 [WS-AOC12W-SO-73-1A]	B182529	10.0	10.0	07/26/17
17G0777-05 [WS-AOC12W-SO-73-2]	B182529	10.0	10.0	07/26/17
17G0777-06 [WS-AOC12W-SO-73-3]	B182529	10.0	10.0	07/26/17
17G0777-07 [WS-AOC12W-SO-85-1]	B182529	10.0	10.0	07/26/17
17G0777-08 [WS-AOC12W-SO-85-2A]	B182529	10.0	10.0	07/26/17
17G0777-10 [WS-AOC12W-SO-85-3]	B182529	10.0	10.0	07/26/17
17G0777-11 [WS-AOC12W-SO-85-4]	B182529	10.0	10.0	07/26/17
17G0777-12 [WS-AOC12W-SO-82-1]	B182529	10.0	10.0	07/26/17
17G0777-13 [WS-AOC12W-SO-82-2]	B182529	10.0	10.0	07/26/17
17G0777-14 [WS-AOC12W-SO-82-3]	B182529	10.0	10.0	07/26/17
17G0777-15 [WS-AOC12W-SO-82-4]	B182529	10.0	10.0	07/26/17
17G0777-16 [WS-AOC12W-SO-77-1]	B182529	10.0	10.0	07/26/17
17G0777-17 [WS-AOC12W-SO-77-2]	B182529	10.0	10.0	07/26/17
17G0777-18 [WS-AOC12W-SO-77-3]	B182529	10.0	10.0	07/26/17
17G0777-19 [WS-AOC12W-SO-77-4]	B182529	10.0	10.0	07/26/17

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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
17G0777-20 [WS-AOC12W-SO-79-1]	B182529	10.0	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0777-04 [WS-AOC12W-SO-73-1B]	B182604	30.0	1.00	07/26/17
17G0777-09 [WS-AOC12W-SO-85-2B]	B182604	30.0	1.00	07/26/17
17G0777-09RE1 [WS-AOC12W-SO-85-2B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182529 - SW-846 3540C										
Blank (B182529-BLK1)				Prepared: 07/26/17 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	*0.168*		mg/Kg wet	0.200		83.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.159*		mg/Kg wet	0.200		79.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.0	30-150			
LCS (B182529-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.2	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.6	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		73.7	40-140			
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg wet	0.200		83.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.157*		mg/Kg wet	0.200		78.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		81.8	30-150			
LCS Dup (B182529-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.6	40-140	17.6	30	
Aroclor-1016 [2C]	0.15	0.020	mg/Kg wet	0.200		76.8	40-140	15.1	30	
Aroclor-1260	0.13	0.020	mg/Kg wet	0.200		65.7	40-140	19.1	30	
Aroclor-1260 [2C]	0.12	0.020	mg/Kg wet	0.200		62.3	40-140	16.8	30	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg wet	0.200		70.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.133*		mg/Kg wet	0.200		66.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg wet	0.200		75.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg wet	0.200		70.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182529 - SW-846 3540C										
Matrix Spike (B182529-MS1)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/28/17						
Aroclor-1016	0.18	0.10	mg/Kg dry	0.210	ND	85.2	40-140			
Aroclor-1016 [2C]	0.16	0.10	mg/Kg dry	0.210	ND	76.2	40-140			
Aroclor-1260	0.14	0.10	mg/Kg dry	0.210	ND	65.8	40-140			
Aroclor-1260 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	67.6	40-140			
Surrogate: Decachlorobiphenyl	*0.160*		mg/Kg dry	0.210		76.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg dry	0.210		88.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.187*		mg/Kg dry	0.210		89.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.191*		mg/Kg dry	0.210		91.2	30-150			
Matrix Spike Dup (B182529-MSD1)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/28/17						
Aroclor-1016	0.15	0.10	mg/Kg dry	0.210	ND	73.3	40-140	15.0	50	
Aroclor-1016 [2C]	0.14	0.10	mg/Kg dry	0.210	ND	65.2	40-140	15.4	50	
Aroclor-1260	0.12	0.10	mg/Kg dry	0.210	ND	58.2	40-140	12.3	50	
Aroclor-1260 [2C]	0.13	0.10	mg/Kg dry	0.210	ND	61.6	40-140	9.37	50	
Surrogate: Decachlorobiphenyl	*0.137*		mg/Kg dry	0.210		65.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.167*		mg/Kg dry	0.210		79.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.159*		mg/Kg dry	0.210		76.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg dry	0.210		77.5	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182549 - % Solids										
Duplicate (B182549-DUP5)		**Source: 17G0777-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	95.2		% Wt		95.4			0.210	20	
Duplicate (B182549-DUP6)		**Source: 17G0777-02**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	80.1		% Wt		82.2			2.59	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182529-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182529-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

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	0.15	
	2	0.000	-0.030	0.030	0.15	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.13	
	2	0.000	-0.030	0.030	0.12	8.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182529-MS1 Date(s) Analyzed: 07/28/2017 07/28/2017

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	0.18	
	2	0.000	-0.030	0.030	0.16	11.8
Aroclor-1260	1	0.000	-0.030	0.030	0.14	
	2	0.000	-0.030	0.030	0.14	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182529-MSD1

Date(s) Analyzed: 07/28/2017 07/28/2017

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	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.12	
	2	0.000	-0.030	0.030	0.13	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.
E	Reported result is estimated. Value reported over verified calibration range.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic							# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-69-2	7/19/17	13:30		X	S	U	X														
2	WS-AOC12W-SO-69-3	↓	13:40		↓	↓	↓	X														
3	WS-AOC12W-SO-73-1A		13:57					X														
4	WS-AOC12W-SO-73-1B		13:58							X	X		X									
5	WS-AOC12W-SO-73-2		13:59					X														
6	WS-AOC12W-SO-73-3		14:00					X														
7	WS-AOC12W-SO-85-1		14:00					X														
8	WS-AOC12W-SO-85-2A		14:02					X														
9	WS-AOC12W-SO-85-2B		14:04							X												
10	WS-AOC12W-SO-85-3		14:06					X														

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mau	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mau	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-A0C12W-SO-85-4	7/19/17	14:08		X	S	U	X								
12	WS-A0C12W-SO-82-1		14:10					X								
13	WS-A0C12W-SO-82-2		14:12					X								
14	WS-A0C12W-SO-82-3		14:14					X								
15	WS-A0C12W-SO-82-4		14:16					X								
16	WS-A0C12W-SO-77-1		14:14					X								
17	WS-A0C12W-SO-77-2		14:15					X								
18	WS-A0C12W-SO-77-3		14:16					X								
19	WS-A0C12W-SO-77-4		14:17					X								
20	WS-A0C12W-SO-79-1		14:30					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
[signature]	7/19/17 1530
Received by: (signature)	Date/Time:
Tom Mauri	7/19/17 1530
Relinquished by: (signature)	Date/Time:
Tom Mauri	7/19/17 1740
Received by: (signature)	Date/Time:
[signature] 3.4	7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 2 Actual Temp - 3.4, 2.9, 4.1

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

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

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: 17G0777

Laboratory Sample ID(s):

17G0777-01 thru 17G0777-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 4, 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: 17G0778

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 6

Sample Results 7

17G0778-01 7

17G0778-02 9

17G0778-03 13

17G0778-04 15

17G0778-05 17

17G0778-06 19

17G0778-07 21

17G0778-08 23

17G0778-09 25

17G0778-10 27

17G0778-11 29

17G0778-12 31

17G0778-13 33

17G0778-14 35

17G0778-15 39

17G0778-16 41

17G0778-17 43

17G0778-18 45

17G0778-19 47

17G0778-20 49

Sample Preparation Information 51

QC Data 53

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 53

B182604 53

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 55

B182583 55

Petroleum Hydrocarbons Analyses 57

B182589 57

Metals Analyses (Total) 58

B182194 58

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 59

B182549 59

Dual Column RPD Report 60

Flag/Qualifier Summary 64

Certifications 65

CÜain of Custody/Sample Receipt 67

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

REPORT DATE: 8/4/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0778

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-79-2A	17G0778-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-79-2B	17G0778-02	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-79-3	17G0778-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-79-4	17G0778-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-1	17G0778-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-2	17G0778-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-3	17G0778-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-80-4	17G0778-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-1	17G0778-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-2	17G0778-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-72-3	17G0778-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-1	17G0778-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-2A	17G0778-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-2B	17G0778-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-83-3	17G0778-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-83-4	17G0778-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-1	17G0778-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-2	17G0778-18	Soil		SM 2540G	
				SW-846 8082A	

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

REPORT DATE: 8/4/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0778

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-76-3	17G0778-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-76-4	17G0778-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

MS-22

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

Analyte & Samples(s) Qualified:

Aroclor-1016 [2C]
B182583-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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2A Sampled: 7/19/2017 14:32

Sample ID: 17G0778-01

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	7/26/17	8/3/17 16:08	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.6	30-150		8/3/17 16:08
Decachlorobiphenyl [2]	93.7	30-150		8/3/17 16:08
Tetrachloro-m-xylene [1]	87.0	30-150		8/3/17 16:08
Tetrachloro-m-xylene [2]	85.0	30-150		8/3/17 16:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2A Sampled: 7/19/2017 14:32

Sample ID: 17G0778-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

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	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Chrysene	0.37	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Fluoranthene	0.21	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
2-Methylnaphthalene	2.1	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Naphthalene	0.97	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Phenanthrene	1.7	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL
Pyrene	0.26	0.18	mg/Kg dry	1		SW-846 8270D	7/26/17	7/31/17 13:55	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	67.1	30-130		7/31/17 13:55
2-Fluorobiphenyl	56.3	30-130		7/31/17 13:55
p-Terphenyl-d14	63.0	30-130		7/31/17 13:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	340	110	mg/Kg dry	10		CTDEP ETPH	7/26/17	8/2/17 17:35	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	115	50-150		8/2/17 17:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	5.9	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-2B Sampled: 7/19/2017 14:34

Sample ID: 17G0778-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-3 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-03

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	7/26/17	8/3/17 16:21	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.9	30-150		8/3/17 16:21
Decachlorobiphenyl [2]	98.4	30-150		8/3/17 16:21
Tetrachloro-m-xylene [1]	86.6	30-150		8/3/17 16:21
Tetrachloro-m-xylene [2]	87.5	30-150		8/3/17 16:21

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-3 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-03

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	83.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-4 Sampled: 7/19/2017 14:38

Sample ID: 17G0778-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.5	30-150		8/3/17 16:34
Decachlorobiphenyl [2]	99.2	30-150		8/3/17 16:34
Tetrachloro-m-xylene [1]	91.1	30-150		8/3/17 16:34
Tetrachloro-m-xylene [2]	92.3	30-150		8/3/17 16:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-79-4 Sampled: 7/19/2017 14:38

Sample ID: 17G0778-04

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	70.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-1 Sampled: 7/19/2017 14:33

Sample ID: 17G0778-05

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	7/26/17	8/3/17 16:47	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 16:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.8	30-150		8/3/17 16:47
Decachlorobiphenyl [2]	91.2	30-150		8/3/17 16:47
Tetrachloro-m-xylene [1]	93.2	30-150		8/3/17 16:47
Tetrachloro-m-xylene [2]	91.9	30-150		8/3/17 16:47

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-1 Sampled: 7/19/2017 14:33

Sample ID: 17G0778-05

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	96.8		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-2 Sampled: 7/19/2017 14:34

Sample ID: 17G0778-06

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	7/26/17	8/3/17 17:00	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/3/17 17:00
Decachlorobiphenyl [2]	86.5	30-150		8/3/17 17:00
Tetrachloro-m-xylene [1]	86.9	30-150		8/3/17 17:00
Tetrachloro-m-xylene [2]	87.9	30-150		8/3/17 17:00

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-2 Sampled: 7/19/2017 14:34

Sample ID: 17G0778-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.6		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-3 Sampled: 7/19/2017 14:35

Sample ID: 17G0778-07

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	7/26/17	8/3/17 17:12	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:12	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.1	30-150		8/3/17 17:12
Decachlorobiphenyl [2]	88.1	30-150		8/3/17 17:12
Tetrachloro-m-xylene [1]	86.4	30-150		8/3/17 17:12
Tetrachloro-m-xylene [2]	83.6	30-150		8/3/17 17:12

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-3 Sampled: 7/19/2017 14:35

Sample ID: 17G0778-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-4 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 17:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.0	30-150		8/3/17 17:25
Decachlorobiphenyl [2]	78.1	30-150		8/3/17 17:25
Tetrachloro-m-xylene [1]	73.6	30-150		8/3/17 17:25
Tetrachloro-m-xylene [2]	64.2	30-150		8/3/17 17:25

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-80-4 Sampled: 7/19/2017 14:36

Sample ID: 17G0778-08

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	58.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-1 Sampled: 7/19/2017 14:55

Sample ID: 17G0778-09

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	7/26/17	8/3/17 18:17	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.4	30-150		8/3/17 18:17
Decachlorobiphenyl [2]	92.8	30-150		8/3/17 18:17
Tetrachloro-m-xylene [1]	89.3	30-150		8/3/17 18:17
Tetrachloro-m-xylene [2]	84.1	30-150		8/3/17 18:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-1 Sampled: 7/19/2017 14:55

Sample ID: 17G0778-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-2 Sampled: 7/19/2017 14:57

Sample ID: 17G0778-10

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	7/26/17	8/3/17 18:30	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:30	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.6	30-150		8/3/17 18:30
Decachlorobiphenyl [2]	86.1	30-150		8/3/17 18:30
Tetrachloro-m-xylene [1]	84.0	30-150		8/3/17 18:30
Tetrachloro-m-xylene [2]	79.9	30-150		8/3/17 18:30

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-2 Sampled: 7/19/2017 14:57

Sample ID: 17G0778-10

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	90.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-3 Sampled: 7/19/2017 14:59

Sample ID: 17G0778-11

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.3	30-150		8/3/17 18:43
Decachlorobiphenyl [2]	92.2	30-150		8/3/17 18:43
Tetrachloro-m-xylene [1]	88.5	30-150		8/3/17 18:43
Tetrachloro-m-xylene [2]	86.8	30-150		8/3/17 18:43

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-72-3 Sampled: 7/19/2017 14:59

Sample ID: 17G0778-11

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	76.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-1 Sampled: 7/19/2017 14:45

Sample ID: 17G0778-12

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	7/26/17	8/3/17 18:56	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 18:56	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		8/3/17 18:56
Decachlorobiphenyl [2]	98.8	30-150		8/3/17 18:56
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 18:56
Tetrachloro-m-xylene [2]	90.3	30-150		8/3/17 18:56

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-1 Sampled: 7/19/2017 14:45

Sample ID: 17G0778-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.2		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2A Sampled: 7/19/2017 14:46

Sample ID: 17G0778-13

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	7/26/17	8/3/17 19:08	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		8/3/17 19:08
Decachlorobiphenyl [2]	97.3	30-150		8/3/17 19:08
Tetrachloro-m-xylene [1]	97.2	30-150		8/3/17 19:08
Tetrachloro-m-xylene [2]	93.3	30-150		8/3/17 19:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2A Sampled: 7/19/2017 14:46

Sample ID: 17G0778-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.5		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

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	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Acenaphthylene	0.49	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Anthracene	0.47	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(a)anthracene	1.2	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(a)pyrene	1.3	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(b)fluoranthene	1.9	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(g,h,i)perylene	1.6	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Benzo(k)fluoranthene	0.66	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Chrysene	1.9	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Dibenz(a,h)anthracene	0.40	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Fluoranthene	2.0	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Fluorene	ND	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Indeno(1,2,3-cd)pyrene	1.4	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
2-Methylnaphthalene	1.6	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Naphthalene	2.7	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Phenanthrene	2.1	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL
Pyrene	2.1	0.25	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:26	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	45.0	30-130		7/28/17 20:26
2-Fluorobiphenyl	42.7	30-130		7/28/17 20:26
p-Terphenyl-d14	47.8	30-130		7/28/17 20:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	670	150	mg/Kg dry	5		CTDEP ETPH	7/26/17	7/27/17 20:28	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	60.4	50-150		7/27/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	55	3.5	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-2B Sampled: 7/19/2017 14:47

Sample ID: 17G0778-14

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	68.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-3 Sampled: 7/19/2017 14:48

Sample ID: 17G0778-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:21	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.7	30-150		8/3/17 19:21
Decachlorobiphenyl [2]	72.1	30-150		8/3/17 19:21
Tetrachloro-m-xylene [1]	70.8	30-150		8/3/17 19:21
Tetrachloro-m-xylene [2]	70.0	30-150		8/3/17 19:21

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-3 Sampled: 7/19/2017 14:48

Sample ID: 17G0778-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.0		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-4 Sampled: 7/19/2017 14:49

Sample ID: 17G0778-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:34	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		8/3/17 19:34
Decachlorobiphenyl [2]	97.9	30-150		8/3/17 19:34
Tetrachloro-m-xylene [1]	95.6	30-150		8/3/17 19:34
Tetrachloro-m-xylene [2]	88.9	30-150		8/3/17 19:34

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-83-4 Sampled: 7/19/2017 14:49

Sample ID: 17G0778-16

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	75.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0778-17

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	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1221 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1232 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1242 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1248 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1254 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1260 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1262 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB
Aroclor-1268 [1]	ND	0.098	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 19:47	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	77.4	30-150		8/3/17 19:47
Decachlorobiphenyl [2]	87.5	30-150		8/3/17 19:47
Tetrachloro-m-xylene [1]	83.4	30-150		8/3/17 19:47
Tetrachloro-m-xylene [2]	81.6	30-150		8/3/17 19:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0778-17

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	94.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-2 Sampled: 7/19/2017 15:03

Sample ID: 17G0778-18

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	7/26/17	8/3/17 20:00	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:00	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.3	30-150		8/3/17 20:00
Decachlorobiphenyl [2]	86.3	30-150		8/3/17 20:00
Tetrachloro-m-xylene [1]	89.6	30-150		8/3/17 20:00
Tetrachloro-m-xylene [2]	85.7	30-150		8/3/17 20:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-2 Sampled: 7/19/2017 15:03

Sample ID: 17G0778-18

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	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-3 Sampled: 7/19/2017 15:05

Sample ID: 17G0778-19

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	7/26/17	8/3/17 20:13	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.1	30-150		8/3/17 20:13
Decachlorobiphenyl [2]	75.6	30-150		8/3/17 20:13
Tetrachloro-m-xylene [1]	78.0	30-150		8/3/17 20:13
Tetrachloro-m-xylene [2]	76.8	30-150		8/3/17 20:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-3 Sampled: 7/19/2017 15:05

Sample ID: 17G0778-19

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-4 Sampled: 7/19/2017 15:07

Sample ID: 17G0778-20

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	7/26/17	8/3/17 20:26	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 20:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.0	30-150		8/3/17 20:26
Decachlorobiphenyl [2]	92.0	30-150		8/3/17 20:26
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 20:26
Tetrachloro-m-xylene [2]	91.6	30-150		8/3/17 20:26

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0778

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-76-4 Sampled: 7/19/2017 15:07

Sample ID: 17G0778-20

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	74.9		% Wt	1		SM 2540G	7/26/17	7/27/17 7:42	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182589	30.0	1.00	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0778-01 [WS-AOC12W-SO-79-2A]	B182549	07/26/17
17G0778-02 [WS-AOC12W-SO-79-2B]	B182549	07/26/17
17G0778-03 [WS-AOC12W-SO-79-3]	B182549	07/26/17
17G0778-04 [WS-AOC12W-SO-79-4]	B182549	07/26/17
17G0778-05 [WS-AOC12W-SO-80-1]	B182549	07/26/17
17G0778-06 [WS-AOC12W-SO-80-2]	B182549	07/26/17
17G0778-07 [WS-AOC12W-SO-80-3]	B182549	07/26/17
17G0778-08 [WS-AOC12W-SO-80-4]	B182549	07/26/17
17G0778-09 [WS-AOC12W-SO-72-1]	B182549	07/26/17
17G0778-10 [WS-AOC12W-SO-72-2]	B182549	07/26/17
17G0778-11 [WS-AOC12W-SO-72-3]	B182549	07/26/17
17G0778-12 [WS-AOC12W-SO-83-1]	B182549	07/26/17
17G0778-13 [WS-AOC12W-SO-83-2A]	B182549	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182549	07/26/17
17G0778-15 [WS-AOC12W-SO-83-3]	B182549	07/26/17
17G0778-16 [WS-AOC12W-SO-83-4]	B182549	07/26/17
17G0778-17 [WS-AOC12W-SO-76-1]	B182549	07/26/17
17G0778-18 [WS-AOC12W-SO-76-2]	B182549	07/26/17
17G0778-19 [WS-AOC12W-SO-76-3]	B182549	07/26/17
17G0778-20 [WS-AOC12W-SO-76-4]	B182549	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182194	1.02	50.0	07/21/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182194	1.05	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-01 [WS-AOC12W-SO-79-2A]	B182583	10.0	10.0	07/26/17
17G0778-03 [WS-AOC12W-SO-79-3]	B182583	10.4	10.0	07/26/17
17G0778-04 [WS-AOC12W-SO-79-4]	B182583	10.0	10.0	07/26/17
17G0778-05 [WS-AOC12W-SO-80-1]	B182583	10.0	10.0	07/26/17
17G0778-06 [WS-AOC12W-SO-80-2]	B182583	10.1	10.0	07/26/17
17G0778-07 [WS-AOC12W-SO-80-3]	B182583	10.3	10.0	07/26/17
17G0778-08 [WS-AOC12W-SO-80-4]	B182583	10.0	10.0	07/26/17
17G0778-09 [WS-AOC12W-SO-72-1]	B182583	10.1	10.0	07/26/17
17G0778-10 [WS-AOC12W-SO-72-2]	B182583	10.0	10.0	07/26/17
17G0778-11 [WS-AOC12W-SO-72-3]	B182583	10.0	10.0	07/26/17
17G0778-12 [WS-AOC12W-SO-83-1]	B182583	10.1	10.0	07/26/17
17G0778-13 [WS-AOC12W-SO-83-2A]	B182583	10.0	10.0	07/26/17
17G0778-15 [WS-AOC12W-SO-83-3]	B182583	10.2	10.0	07/26/17
17G0778-16 [WS-AOC12W-SO-83-4]	B182583	10.4	10.0	07/26/17
17G0778-17 [WS-AOC12W-SO-76-1]	B182583	10.7	10.0	07/26/17

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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
17G0778-18 [WS-AOC12W-SO-76-2]	B182583	10.6	10.0	07/26/17
17G0778-19 [WS-AOC12W-SO-76-3]	B182583	10.0	10.0	07/26/17
17G0778-20 [WS-AOC12W-SO-76-4]	B182583	10.1	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0778-02 [WS-AOC12W-SO-79-2B]	B182604	30.0	1.00	07/26/17
17G0778-14 [WS-AOC12W-SO-83-2B]	B182604	30.0	1.00	07/26/17

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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 B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182583 - SW-846 3540C										
Blank (B182583-BLK1)				Prepared: 07/26/17 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	*0.170*		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	30-150			
LCS (B182583-BS1)				Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.1	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		88.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.5	40-140			
Surrogate: Decachlorobiphenyl	*0.189*		mg/Kg wet	0.200		94.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.172*		mg/Kg wet	0.200		85.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.168*		mg/Kg wet	0.200		84.2	30-150			
LCS Dup (B182583-BSD1)				Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		90.8	40-140	1.88	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		92.8	40-140	4.48	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	1.82	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.2	40-140	0.430	30	
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.185*		mg/Kg wet	0.200		92.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.176*		mg/Kg wet	0.200		87.8	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 B182583 - SW-846 3540C											
Matrix Spike (B182583-MS1)		**Source: 17G0778-01**		Prepared: 07/26/17 Analyzed: 08/03/17							
Aroclor-1016	0.21	0.11	mg/Kg dry	0.214	ND	101		40-140			
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.214	ND	109		40-140			
Aroclor-1260	0.21	0.11	mg/Kg dry	0.214	ND	96.1		40-140			
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.214	ND	96.4		40-140			
Surrogate: Decachlorobiphenyl	*0.194*		mg/Kg dry	0.214		90.9		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg dry	0.214		93.1		30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg dry	0.214		89.4		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg dry	0.214		84.2		30-150			
Matrix Spike Dup (B182583-MSD1)		**Source: 17G0778-01**		Prepared: 07/26/17 Analyzed: 08/03/17							
Aroclor-1016	0.23	0.11	mg/Kg dry	0.212	ND	109		40-140	7.04	50	
Aroclor-1016 [2C]	0.30	0.11	mg/Kg dry	0.212	ND	**144**	*	40-140	26.7	50	MS-22
Aroclor-1260	0.22	0.11	mg/Kg dry	0.212	ND	104		40-140	6.88	50	
Aroclor-1260 [2C]	0.22	0.11	mg/Kg dry	0.212	ND	105		40-140	7.31	50	
Surrogate: Decachlorobiphenyl	*0.199*		mg/Kg dry	0.212		94.0		30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.200*		mg/Kg dry	0.212		94.3		30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.212		96.2		30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.192*		mg/Kg dry	0.212		90.9		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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182549 - % Solids										
Duplicate (B182549-DUP7)		**Source: 17G0778-19**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	93.1		% Wt		93.1			0.00	20	
Duplicate (B182549-DUP8)		**Source: 17G0778-20**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	72.9		% Wt		74.9			2.71	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182583-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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182583-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	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182583-MS1 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	0.21	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182583-MSD1 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	0.23	
	2	0.000	-0.030	0.030	0.30	26.4
Aroclor-1260	1	0.000	-0.030	0.030	0.22	
	2	0.000	-0.030	0.030	0.22	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
MS-22	Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1760778

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con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Soxhlet PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-79-2A	7/19/17	14:32		X	S	V	X								
2	WS-AOC12W-SO-79-2B		14:34							X	X		X			
3	WS-AOC12W-SO-79-3		14:36					X								
4	WS-AOC12W-SO-79-4		14:38					X								
5	WS-AOC12W-SO-80-1		14:33					X								
6	WS-AOC12W-SO-80-2		14:34					X								
7	WS-AOC12W-SO-80-3		14:35					X								
8	WS-AOC12W-SO-80-4		14:36					X								
9	WS-AOC12W-SO-72-1		14:55					X								
10	WS-AOC12W-SO-72-2		14:59					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Moore	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Moore	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
GW RES DEC
Other:

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Sonnet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-72-3	7/19/17	14:59		X	S	U	X								
12	WS-AOC12W-SO-83-1		14:45					X								
13	WS-AOC12W-SO-83-2A		14:46					X								
14	WS-AOC12W-SO-83-2B		14:47							X	X		X			
15	WS-AOC12W-SO-83-3		14:48					X								
16	WS-AOC12W-SO-83-4		14:49					X								
17	WS-AOC12W-SO-76-1		15:01					X								
18	WS-AOC12W-SO-76-2		15:03					X								
19	WS-AOC12-SO-76-3		15:05					X								
20	WS-AOC12-SO-76-4		15:07					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time:
	7/19/17 1530
Received by: (signature)	Date/Time:
Tom Mair	7/19/17 1530
Relinquished by: (signature)	Date/Time:
Tom Mair	7/19/17 1740
Received by: (signature) 3.4	Date/Time:
	7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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Table of Contents

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ____
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-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0778

Laboratory Sample ID(s):

17G0778-01 thru 17G0778-20

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☐ Yes ☑ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/04/17**

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

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

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

August 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: 17G0779

Enclosed are results of analyses for samples received by the laboratory on July 19, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

17G0779−01 6

17G0779−02 8

17G0779−03 10

17G0779−04 12

17G0779−05 14

17G0779−06 16

17G0779−07 18

17G0779−08 22

17G0779−09 24

17G0779−10 26

17G0779−11 28

17G0779−12 30

17G0779−13 34

17G0779−14 36

17G0779−15 38

Sample Preparation Information 40

QC Data 42

Semivolatile Organic Compounds by GC/MS 42

B182604 42

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 44

B182509 44

Petroleum Hydrocarbons Analyses 46

Table of Contents (continued)

B182589 46

Metals Analyses (Total) 47

B182194 47

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 48

B182552 48

Dual Column RPD Report 49

Flag/Qualifier Summary 54

Certifications 55

CÜain of Custody/Sample Receipt 57

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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: 17G0779

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-86-1	17G0779-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-2	17G0779-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-3	17G0779-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-86-4	17G0779-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-1	17G0779-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2A	17G0779-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2B	17G0779-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-87-3	17G0779-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-4	17G0779-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-8	17G0779-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-9A	17G0779-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-9B	17G0779-12	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-DUP-10	17G0779-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-11	17G0779-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-DUP-12	17G0779-15	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0779-01

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	7/26/17	8/3/17 12:01	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:01	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/3/17 12:01
Decachlorobiphenyl [2]	103	30-150		8/3/17 12:01
Tetrachloro-m-xylene [1]	102	30-150		8/3/17 12:01
Tetrachloro-m-xylene [2]	102	30-150		8/3/17 12:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-1 Sampled: 7/19/2017 15:01

Sample ID: 17G0779-01

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	97.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-2 Sampled: 7/19/2017 15:02

Sample ID: 17G0779-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1254 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1260 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:14	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/3/17 12:14
Decachlorobiphenyl [2]	107	30-150		8/3/17 12:14
Tetrachloro-m-xylene [1]	111	30-150		8/3/17 12:14
Tetrachloro-m-xylene [2]	112	30-150		8/3/17 12:14

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-2 Sampled: 7/19/2017 15:02

Sample ID: 17G0779-02

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	96.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-3 Sampled: 7/19/2017 15:03

Sample ID: 17G0779-03

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	7/26/17	8/3/17 12:26	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:26	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	91.9	30-150		8/3/17 12:26
Decachlorobiphenyl [2]	99.0	30-150		8/3/17 12:26
Tetrachloro-m-xylene [1]	98.5	30-150		8/3/17 12:26
Tetrachloro-m-xylene [2]	100	30-150		8/3/17 12:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-3 Sampled: 7/19/2017 15:03

Sample ID: 17G0779-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-4 Sampled: 7/19/2017 15:04

Sample ID: 17G0779-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:39	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.5	30-150		8/3/17 12:39
Decachlorobiphenyl [2]	96.0	30-150		8/3/17 12:39
Tetrachloro-m-xylene [1]	98.6	30-150		8/3/17 12:39
Tetrachloro-m-xylene [2]	99.6	30-150		8/3/17 12:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-86-4 Sampled: 7/19/2017 15:04

Sample ID: 17G0779-04

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	71.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/19/2017 15:05

Sample ID: 17G0779-05

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	7/26/17	8/3/17 12:52	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 12:52	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/3/17 12:52
Decachlorobiphenyl [2]	108	30-150		8/3/17 12:52
Tetrachloro-m-xylene [1]	116	30-150		8/3/17 12:52
Tetrachloro-m-xylene [2]	119	30-150		8/3/17 12:52

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-1 Sampled: 7/19/2017 15:05

Sample ID: 17G0779-05

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	93.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/19/2017 15:06

Sample ID: 17G0779-06

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	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1254 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:04	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.4	30-150		8/3/17 13:04
Decachlorobiphenyl [2]	90.1	30-150		8/3/17 13:04
Tetrachloro-m-xylene [1]	94.5	30-150		8/3/17 13:04
Tetrachloro-m-xylene [2]	96.5	30-150		8/3/17 13:04

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/19/2017 15:06

Sample ID: 17G0779-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.8		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(a)anthracene	0.63	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(a)pyrene	0.71	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(b)fluoranthene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(g,h,i)perylene	0.72	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Benzo(k)fluoranthene	0.27	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Chrysene	0.86	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Fluoranthene	0.97	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Indeno(1,2,3-cd)pyrene	0.62	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Naphthalene	0.22	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Phenanthrene	0.55	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL
Pyrene	1.3	0.19	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 20:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	45.7	30-130		7/28/17 20:51
2-Fluorobiphenyl	45.8	30-130		7/28/17 20:51
p-Terphenyl-d14	52.6	30-130		7/28/17 20:51

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	450	230	mg/Kg dry	10		CTDEP ETPH	7/26/17	7/27/17 20:46	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	80.6	50-150		7/27/17 20:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	39	2.7	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-2B Sampled: 7/19/2017 15:07

Sample ID: 17G0779-07

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	88.0		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/19/2017 15:08

Sample ID: 17G0779-08

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	7/26/17	8/3/17 13:17	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:17	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.3	30-150		8/3/17 13:17
Decachlorobiphenyl [2]	88.9	30-150		8/3/17 13:17
Tetrachloro-m-xylene [1]	93.5	30-150		8/3/17 13:17
Tetrachloro-m-xylene [2]	95.9	30-150		8/3/17 13:17

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-3 Sampled: 7/19/2017 15:08

Sample ID: 17G0779-08

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/19/2017 15:09

Sample ID: 17G0779-09

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	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1254 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:30	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.7	30-150		8/3/17 13:30
Decachlorobiphenyl [2]	103	30-150		8/3/17 13:30
Tetrachloro-m-xylene [1]	101	30-150		8/3/17 13:30
Tetrachloro-m-xylene [2]	105	30-150		8/3/17 13:30

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-87-4 Sampled: 7/19/2017 15:09

Sample ID: 17G0779-09

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	61.7		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-8 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-10

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	7/26/17	8/3/17 13:55	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1260 [2]	0.12	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 13:55	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.5	30-150		8/3/17 13:55
Decachlorobiphenyl [2]	90.7	30-150		8/3/17 13:55
Tetrachloro-m-xylene [1]	97.1	30-150		8/3/17 13:55
Tetrachloro-m-xylene [2]	98.9	30-150		8/3/17 13:55

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-8 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-10

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9A Sampled: 7/19/2017 00:00

Sample ID: 17G0779-11

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	7/26/17	8/3/17 14:08	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:08	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	84.7	30-150		8/3/17 14:08
Decachlorobiphenyl [2]	90.8	30-150		8/3/17 14:08
Tetrachloro-m-xylene [1]	95.2	30-150		8/3/17 14:08
Tetrachloro-m-xylene [2]	98.9	30-150		8/3/17 14:08

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9A Sampled: 7/19/2017 00:00

Sample ID: 17G0779-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.4		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

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	7/26/17	7/28/17 21:15	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Chrysene	0.37	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Phenanthrene	0.33	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL
Pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	7/26/17	7/28/17 21:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	38.3	30-130		7/28/17 21:15
2-Fluorobiphenyl	37.7	30-130		7/28/17 21:15
p-Terphenyl-d14	45.9	30-130		7/28/17 21:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	1000	240	mg/Kg dry	10		CTDEP ETPH	7/26/17	7/28/17 0:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	105	50-150		7/28/17 0:01

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	42	3.0	mg/Kg dry	1		SW-846 6010C-D	7/21/17	7/24/17 18:05	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-9B Sampled: 7/19/2017 00:00

Sample ID: 17G0779-12

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-10 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-13

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	7/26/17	8/3/17 14:20	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:20	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		8/3/17 14:20
Decachlorobiphenyl [2]	93.2	30-150		8/3/17 14:20
Tetrachloro-m-xylene [1]	95.6	30-150		8/3/17 14:20
Tetrachloro-m-xylene [2]	98.0	30-150		8/3/17 14:20

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-10 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-13

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	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-11 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-14

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	7/26/17	8/3/17 14:33	PJG
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:33	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.9	30-150		8/3/17 14:33
Decachlorobiphenyl [2]	73.0	30-150		8/3/17 14:33
Tetrachloro-m-xylene [1]	73.6	30-150		8/3/17 14:33
Tetrachloro-m-xylene [2]	75.0	30-150		8/3/17 14:33

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-11 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-14

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.6		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-12 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-15

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	7/26/17	8/3/17 14:46	PJG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/26/17	8/3/17 14:46	PJG

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.3	30-150		8/3/17 14:46
Decachlorobiphenyl [2]	90.3	30-150		8/3/17 14:46
Tetrachloro-m-xylene [1]	96.2	30-150		8/3/17 14:46
Tetrachloro-m-xylene [2]	97.0	30-150		8/3/17 14:46

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0779

Date Received: 7/19/2017

Field Sample #: WS-AOC12W-SO-DUP-12 Sampled: 7/19/2017 00:00

Sample ID: 17G0779-15

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.3		% Wt	1		SM 2540G	7/26/17	7/27/17 8:21	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182589	30.0	2.00	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182589	30.0	2.00	07/26/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0779-01 [WS-AOC12W-SO-86-1]	B182552	07/26/17
17G0779-02 [WS-AOC12W-SO-86-2]	B182552	07/26/17
17G0779-03 [WS-AOC12W-SO-86-3]	B182552	07/26/17
17G0779-04 [WS-AOC12W-SO-86-4]	B182552	07/26/17
17G0779-05 [WS-AOC12W-SO-87-1]	B182552	07/26/17
17G0779-06 [WS-AOC12W-SO-87-2A]	B182552	07/26/17
17G0779-07 [WS-AOC12W-SO-87-2B]	B182552	07/26/17
17G0779-08 [WS-AOC12W-SO-87-3]	B182552	07/26/17
17G0779-09 [WS-AOC12W-SO-87-4]	B182552	07/26/17
17G0779-10 [WS-AOC12W-SO-DUP-8]	B182552	07/26/17
17G0779-11 [WS-AOC12W-SO-DUP-9A]	B182552	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182552	07/26/17
17G0779-13 [WS-AOC12W-SO-DUP-10]	B182552	07/26/17
17G0779-14 [WS-AOC12W-SO-DUP-11]	B182552	07/26/17
17G0779-15 [WS-AOC12W-SO-DUP-12]	B182552	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182194	1.05	50.0	07/21/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182194	1.01	50.0	07/21/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-01 [WS-AOC12W-SO-86-1]	B182509	10.1	10.0	07/26/17
17G0779-02 [WS-AOC12W-SO-86-2]	B182509	10.8	10.0	07/26/17
17G0779-03 [WS-AOC12W-SO-86-3]	B182509	10.8	10.0	07/26/17
17G0779-04 [WS-AOC12W-SO-86-4]	B182509	10.6	10.0	07/26/17
17G0779-05 [WS-AOC12W-SO-87-1]	B182509	10.0	10.0	07/26/17
17G0779-06 [WS-AOC12W-SO-87-2A]	B182509	10.5	10.0	07/26/17
17G0779-08 [WS-AOC12W-SO-87-3]	B182509	10.4	10.0	07/26/17
17G0779-09 [WS-AOC12W-SO-87-4]	B182509	10.1	10.0	07/26/17
17G0779-10 [WS-AOC12W-SO-DUP-8]	B182509	10.3	10.0	07/26/17
17G0779-11 [WS-AOC12W-SO-DUP-9A]	B182509	10.0	10.0	07/26/17
17G0779-13 [WS-AOC12W-SO-DUP-10]	B182509	10.7	10.0	07/26/17
17G0779-14 [WS-AOC12W-SO-DUP-11]	B182509	10.0	10.0	07/26/17
17G0779-15 [WS-AOC12W-SO-DUP-12]	B182509	10.4	10.0	07/26/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0779-07 [WS-AOC12W-SO-87-2B]	B182604	30.0	1.00	07/26/17
17G0779-12 [WS-AOC12W-SO-DUP-9B]	B182604	30.0	1.00	07/26/17

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Sample Extraction Data

con-test® ANALYTICAL LABORATORY

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

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182604 - SW-846 3546										
Blank (B182604-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.42*		mg/Kg wet	3.33		72.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.72*		mg/Kg wet	3.33		81.5	30-130			
LCS (B182604-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	0.860	0.17	mg/Kg wet	1.67		51.6	40-140			
Acenaphthylene	0.832	0.17	mg/Kg wet	1.67		49.9	40-140			
Anthracene	0.914	0.17	mg/Kg wet	1.67		54.8	40-140			
Benzo(a)anthracene	0.935	0.17	mg/Kg wet	1.67		56.1	40-140			
Benzo(a)pyrene	0.940	0.17	mg/Kg wet	1.67		56.4	40-140			
Benzo(b)fluoranthene	0.852	0.17	mg/Kg wet	1.67		51.1	40-140			
Benzo(g,h,i)perylene	1.11	0.17	mg/Kg wet	1.67		66.4	40-140			
Benzo(k)fluoranthene	0.863	0.17	mg/Kg wet	1.67		51.8	40-140			
Chrysene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Dibenz(a,h)anthracene	1.03	0.17	mg/Kg wet	1.67		61.8	40-140			
Fluoranthene	0.889	0.17	mg/Kg wet	1.67		53.3	40-140			
Fluorene	0.876	0.17	mg/Kg wet	1.67		52.6	40-140			
Indeno(1,2,3-cd)pyrene	0.984	0.17	mg/Kg wet	1.67		59.1	40-140			
2-Methylnaphthalene	0.851	0.17	mg/Kg wet	1.67		51.0	40-140			
Naphthalene	0.836	0.17	mg/Kg wet	1.67		50.1	40-140			
Phenanthrene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140			
Pyrene	0.887	0.17	mg/Kg wet	1.67		53.2	40-140			
Surrogate: Nitrobenzene-d5	*1.92*		mg/Kg wet	3.33		57.6	30-130			
Surrogate: 2-Fluorobiphenyl	*1.93*		mg/Kg wet	3.33		57.9	30-130			
Surrogate: p-Terphenyl-d14	*2.13*		mg/Kg wet	3.33		63.8	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 B182604 - SW-846 3546										
LCS Dup (B182604-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
Acenaphthene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	19.3	30	
Acenaphthylene	1.02	0.17	mg/Kg wet	1.67		61.1	40-140	20.0	30	
Anthracene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140	20.1	30	
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		68.0	40-140	19.2	30	
Benzo(a)pyrene	1.12	0.17	mg/Kg wet	1.67		66.9	40-140	17.1	30	
Benzo(b)fluoranthene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	17.2	30	
Benzo(g,h,i)perylene	1.35	0.17	mg/Kg wet	1.67		81.1	40-140	20.0	30	
Benzo(k)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.3	40-140	18.4	30	
Chrysene	1.11	0.17	mg/Kg wet	1.67		66.7	40-140	17.4	30	
Dibenz(a,h)anthracene	1.26	0.17	mg/Kg wet	1.67		75.9	40-140	20.4	30	
Fluoranthene	1.11	0.17	mg/Kg wet	1.67		66.8	40-140	22.5	30	
Fluorene	1.06	0.17	mg/Kg wet	1.67		63.6	40-140	19.0	30	
Indeno(1,2,3-cd)pyrene	1.27	0.17	mg/Kg wet	1.67		76.0	40-140	25.1	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	20.1	30	
Naphthalene	1.01	0.17	mg/Kg wet	1.67		60.5	40-140	18.8	30	
Phenanthrene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140	18.7	30	
Pyrene	1.12	0.17	mg/Kg wet	1.67		67.2	40-140	23.2	30	
Surrogate: Nitrobenzene-d5	*2.33*		mg/Kg wet	3.33		70.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.33*		mg/Kg wet	3.33		69.9	30-130			
Surrogate: p-Terphenyl-d14	*2.60*		mg/Kg wet	3.33		78.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182509 - SW-846 3540C										
Blank (B182509-BLK1)				Prepared: 07/26/17 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	*0.193*		mg/Kg wet	0.200		96.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.182*		mg/Kg wet	0.200		90.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.188*		mg/Kg wet	0.200		94.1	30-150			
LCS (B182509-BS1)				Prepared: 07/26/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.6	40-140			
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		76.3	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.9	40-140			
Surrogate: Decachlorobiphenyl	*0.198*		mg/Kg wet	0.200		99.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.212*		mg/Kg wet	0.200		106	30-150			
Surrogate: Tetrachloro-m-xylene	*0.191*		mg/Kg wet	0.200		95.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		98.1	30-150			
LCS Dup (B182509-BSD1)				Prepared: 07/26/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5	40-140	1.37	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.6	40-140	0.506	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.1	40-140	1.69	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.6	40-140	1.55	30	
Surrogate: Decachlorobiphenyl	*0.193*		mg/Kg wet	0.200		96.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Tetrachloro-m-xylene	*0.185*		mg/Kg wet	0.200		92.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.196*		mg/Kg wet	0.200		97.8	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 B182509 - SW-846 3540C										
Matrix Spike (B182509-MS1)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.203	ND	102	40-140			
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.203	ND	111	40-140			
Aroclor-1260	0.17	0.10	mg/Kg dry	0.203	ND	81.8	40-140			
Aroclor-1260 [2C]	0.17	0.10	mg/Kg dry	0.203	ND	85.0	40-140			
Surrogate: Decachlorobiphenyl	*0.168*		mg/Kg dry	0.203		82.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.181*		mg/Kg dry	0.203		88.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.195*		mg/Kg dry	0.203		95.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg dry	0.203		98.9	30-150			
Matrix Spike Dup (B182509-MSD1)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 08/03/17						
Aroclor-1016	0.21	0.10	mg/Kg dry	0.203	ND	106	40-140	3.53	50	
Aroclor-1016 [2C]	0.23	0.10	mg/Kg dry	0.203	ND	114	40-140	2.63	50	
Aroclor-1260	0.17	0.10	mg/Kg dry	0.203	ND	85.3	40-140	4.16	50	
Aroclor-1260 [2C]	0.18	0.10	mg/Kg dry	0.203	ND	90.9	40-140	6.67	50	
Surrogate: Decachlorobiphenyl	*0.174*		mg/Kg dry	0.203		85.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.186*		mg/Kg dry	0.203		91.4	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.203		100	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.203		102	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 B182589 - SW-846 3546										
Blank (B182589-BLK1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.17*		mg/Kg wet	3.33		95.1	50-150			
LCS (B182589-BS1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	32.7	10	mg/Kg wet	33.3		98.1	60-120			
Surrogate: o-Terphenyl	*2.50*		mg/Kg wet	3.33		75.1	50-150			
LCS Dup (B182589-BSD1)				Prepared: 07/26/17 Analyzed: 07/27/17						
CT ETPH	29.7	10	mg/Kg wet	33.3		89.0	60-120	9.67	30	
Surrogate: o-Terphenyl	*2.58*		mg/Kg wet	3.33		77.4	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182194 - SW-846 3050B										
Blank (B182194-BLK1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182194-BS1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.6	5.0	mg/Kg wet	57.0		90.5	77.8-122.1			
LCS Dup (B182194-BSD1)				Prepared: 07/21/17 Analyzed: 07/24/17						
Arsenic	51.2	4.9	mg/Kg wet	57.0		89.9	77.8-122.1	0.723	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182552 - % Solids										
Duplicate (B182552-DUP3)		**Source: 17G0779-01**		Prepared: 07/26/17 Analyzed: 07/27/17						
% Solids	97.3		% Wt		97.4			0.103	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-DUP-8

Lab Sample ID: 17G0779-10 Date(s) Analyzed: 08/03/2017 08/03/2017

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	0.12	
	2	0.000	-0.030	0.030	0.12	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182509-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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182509-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	0.17	
	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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182509-MS1 Date(s) Analyzed: 08/03/2017 08/03/2017

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	0.21	
	2	0.000	-0.030	0.030	0.23	9.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.17	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182509-MSD1 Date(s) Analyzed: 08/03/2017 08/03/2017

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	0.21	
	2	0.000	-0.030	0.030	0.23	4.4
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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FLAG/QUALIFIER SUMMARY

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

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

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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

1760779

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-86-1	7/19/17	15:01		X	S	U	X								
2	WS-AOC12W-SO-86-2		15:02					X								
3	WS-AOC12W-SO-86-3		15:03					X								
4	WS-AOC12W-SO-86-4		15:04					X								
5	WS-AOC12W-SO-87-1		15:05					X								
6	WS-AOC12W-SO-87-2A		15:06					X								
7	WS-AOC12W-SO-87-2B		15:07							X	X		X			
8	WS-AOC12W-SO-87-3		15:08					X								
9	WS-AOC12W-SO-87-4		15:09					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

Relinquished by: (signature)	Date/Time: 7/18/17 1530
Received by: (signature) Tom Mure	Date/Time: 7/19/17 1530
Relinquished by: (signature)	Date/Time: 7/19/17 1740
Received by: (signature) 3.4	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
10	WS-AOC12W-SO-DUP-8	7/19/17			X	S	U	X								
11	WS-AOC12W-SO-DUP-9A	7/19/17						X								
12	WS-AOC12W-SO-DUP-9B									X	X		X			
13	WS-AOC12W-SO-DUP-10							X								
14	WS-AOC12W-SO-DUP-11							X								
15	WS-AOC12W-SO-DUP-12							X								
16 (JW)																
17																

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
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[2] **Preservation Codes:**
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T = Sodium Thiosulfate
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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)	Date/Time: 7/19/17 1530
Received by: (signature) Tom Mai	Date/Time: 7/19/17 1530
Relinquished by: (signature) Tom Mai	Date/Time: 7/19/17 1740
Received by: (signature)	Date/Time: 7/19/17 1740
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

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

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Table of Contents

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Doc# 277 Rev 5 2017

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

Client Weston & Sampson

Received By JM Date 7/19/17 Time 1740

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 3.4, 2.9, 4.1
By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F
Was COC Relinquished ? T Does Chain Agree With Samples? T
Are there broken/leaking/loose caps on any samples? F
Is COC in ink/ Legible? T Were samples received within holding time? T
Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? N/A Who was notified? ____
Are there Rushes? N/A Who was notified? ____
Are there Short Holds? N/A Who was notified? ____
Is there enough Volume? T
Is there Headspace where applicable? N/A MS/MSD? ____
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-	~~20~~	500 mL Amb.		500 mL Plastic		8oz Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072717.SEC\A0727055.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	7/27/17
Data File Name	A0727055.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.14	429971	456453	-6
c - 10	1.49	436660	456453	-4
c - 12	2.22	455312	456453	0
c - 14	2.88	461259	456453	1
c - 16	3.48	469293	456453	3
c - 18	4.05	462720	456453	1
o-Terphenyl	4.36	532470	456453	
c - 20	4.66	470640	456453	3
c - 22	5.18	476652	456453	4
c - 24	5.62	443852	456453	-3
c - 26	6.01	468554	456453	3
c - 28	6.37	463829	456453	2
c - 30	6.70	457044	456453	0
c - 32	7.01	446255	456453	-2
c - 34	7.30	450835	456453	-1
c - 36	7.58	453922	456453	-1

* One compound allowed %D <= 50%

Samples

17G0775-13
17G0679-08@20X
17G0772-08@10X
17G0778-14@5X
17G0779-07@10X
17G0779-12@10X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

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

Project Number: 17G0779

Laboratory Sample ID(s):

17G0779-01 thru 17G0779-15

Sample Date(s):

07/19/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 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: 17G0865

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0865−01	6
17G0865−02	8
17G0865−03	10
17G0865−04	12
17G0865−05	14
17G0865−06	16
17G0865−07	18
17G0865−08	20
17G0865−09	22
17G0865−10	24
17G0865−11	26
17G0865−12	28
17G0865−13	30
17G0865−14	32
17G0865−15	35
17G0865−16	37
17G0865−17	39
17G0865−18	41
17G0865−19	43
17G0865−20	45
Sample Preparation Information	47
QC Data	49

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 49

B182702 49

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 51

B182731 51

Petroleum Hydrocarbons Analyses 54

B182711 54

Metals Analyses (Total) 55

B182378 55

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 56

B182677 56

Dual Column RPD Report 57

Flag/Qualifier Summary 65

Certifications 66

CÜain of Custody/Sample Receipt 68

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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: 17G0865

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-68-1A	17G0865-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-1B	17G0865-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-68-2	17G0865-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-3	17G0865-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-1	17G0865-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-2	17G0865-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-3	17G0865-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-4	17G0865-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-1	17G0865-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-2	17G0865-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-3	17G0865-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-1	17G0865-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2A	17G0865-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2B	17G0865-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-70-3	17G0865-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-4	17G0865-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-1	17G0865-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-2	17G0865-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-3	17G0865-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-1A	17G0865-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

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 17:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/31/17 17:43
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 17:43
Tetrachloro-m-xylene [1]	75.4	30-150		7/31/17 17:43
Tetrachloro-m-xylene [2]	76.8	30-150		7/31/17 17:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Chrysene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
2-Methylnaphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Phenanthrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	34.9	30-130		7/31/17 11:48
2-Fluorobiphenyl	32.1	30-130		7/31/17 11:48
p-Terphenyl-d14	32.4	30-130		7/31/17 11:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	7/27/17	7/31/17 17:56	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		7/31/17 17:56
Decachlorobiphenyl [2]	72.8	30-150		7/31/17 17:56
Tetrachloro-m-xylene [1]	71.5	30-150		7/31/17 17:56
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 17:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1262 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		7/31/17 18:09
Decachlorobiphenyl [2]	79.9	30-150		7/31/17 18:09
Tetrachloro-m-xylene [1]	84.2	30-150		7/31/17 18:09
Tetrachloro-m-xylene [2]	82.5	30-150		7/31/17 18:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	7/27/17	7/31/17 18:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		7/31/17 18:22
Decachlorobiphenyl [2]	71.5	30-150		7/31/17 18:22
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:22
Tetrachloro-m-xylene [2]	68.0	30-150		7/31/17 18:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	91.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	7/27/17	7/31/17 18:35	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/31/17 18:35
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 18:35
Tetrachloro-m-xylene [1]	72.7	30-150		7/31/17 18:35
Tetrachloro-m-xylene [2]	73.1	30-150		7/31/17 18:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	7/27/17	7/31/17 18:47	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.0	30-150		7/31/17 18:47
Decachlorobiphenyl [2]	54.3	30-150		7/31/17 18:47
Tetrachloro-m-xylene [1]	56.1	30-150		7/31/17 18:47
Tetrachloro-m-xylene [2]	59.1	30-150		7/31/17 18:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	66.7	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	67.9	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	68.6	30-150		7/31/17 19:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	73.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	7/31/17 19:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		7/31/17 19:51
Decachlorobiphenyl [2]	77.8	30-150		7/31/17 19:51
Tetrachloro-m-xylene [1]	73.4	30-150		7/31/17 19:51
Tetrachloro-m-xylene [2]	73.8	30-150		7/31/17 19:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	7/27/17	7/31/17 20:04	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		7/31/17 20:04
Decachlorobiphenyl [2]	65.5	30-150		7/31/17 20:04
Tetrachloro-m-xylene [1]	64.3	30-150		7/31/17 20:04
Tetrachloro-m-xylene [2]	65.7	30-150		7/31/17 20:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	90.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		7/31/17 20:16
Decachlorobiphenyl [2]	74.2	30-150		7/31/17 20:16
Tetrachloro-m-xylene [1]	74.4	30-150		7/31/17 20:16
Tetrachloro-m-xylene [2]	74.9	30-150		7/31/17 20:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	71.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	7/27/17	7/31/17 20:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		7/31/17 20:29
Decachlorobiphenyl [2]	65.3	30-150		7/31/17 20:29
Tetrachloro-m-xylene [1]	65.0	30-150		7/31/17 20:29
Tetrachloro-m-xylene [2]	67.1	30-150		7/31/17 20:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	91.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	7/27/17	7/31/17 20:42	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.7	30-150		7/31/17 20:42
Decachlorobiphenyl [2]	55.7	30-150		7/31/17 20:42
Tetrachloro-m-xylene [1]	53.8	30-150		7/31/17 20:42
Tetrachloro-m-xylene [2]	54.6	30-150		7/31/17 20:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	83.9		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	380	55	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.5	50-150		8/2/17 23:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.7	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:12	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

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	90.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	7/27/17	7/31/17 20:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/31/17 20:54
Decachlorobiphenyl [2]	66.1	30-150		7/31/17 20:54
Tetrachloro-m-xylene [1]	68.3	30-150		7/31/17 20:54
Tetrachloro-m-xylene [2]	70.5	30-150		7/31/17 20:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	84.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	7/27/17	7/31/17 21:07	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		7/31/17 21:07
Decachlorobiphenyl [2]	72.5	30-150		7/31/17 21:07
Tetrachloro-m-xylene [1]	72.6	30-150		7/31/17 21:07
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 21:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	70.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

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	7/27/17	7/31/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		7/31/17 21:19
Decachlorobiphenyl [2]	67.1	30-150		7/31/17 21:19
Tetrachloro-m-xylene [1]	65.5	30-150		7/31/17 21:19
Tetrachloro-m-xylene [2]	66.0	30-150		7/31/17 21:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

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	92.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	7/27/17	7/31/17 21:32	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		7/31/17 21:32
Decachlorobiphenyl [2]	62.5	30-150		7/31/17 21:32
Tetrachloro-m-xylene [1]	65.8	30-150		7/31/17 21:32
Tetrachloro-m-xylene [2]	65.4	30-150		7/31/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	86.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1262 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		7/31/17 21:44
Decachlorobiphenyl [2]	76.9	30-150		7/31/17 21:44
Tetrachloro-m-xylene [1]	81.8	30-150		7/31/17 21:44
Tetrachloro-m-xylene [2]	79.1	30-150		7/31/17 21:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	57.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	7/27/17	7/31/17 21:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		7/31/17 21:57
Decachlorobiphenyl [2]	75.3	30-150		7/31/17 21:57
Tetrachloro-m-xylene [1]	77.2	30-150		7/31/17 21:57
Tetrachloro-m-xylene [2]	76.4	30-150		7/31/17 21:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182677	07/28/17
17G0865-02 [WS-AOC12W-SO-68-1B]	B182677	07/28/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182677	07/28/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182677	07/28/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182677	07/28/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182677	07/28/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182677	07/28/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182677	07/28/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182677	07/28/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182677	07/28/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182677	07/28/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182677	07/28/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182677	07/28/17
17G0865-14 [WS-AOC12W-SO-70-2B]	B182677	07/28/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182677	07/28/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182677	07/28/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182677	07/28/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182677	07/28/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182677	07/28/17
17G0865-20 [WS-AOC12W-SO-63-1A]	B182677	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182378	1.01	50.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182731	10.0	10.0	07/27/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182731	10.0	10.0	07/27/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182731	10.0	10.0	07/27/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182731	10.0	10.0	07/27/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182731	10.0	10.0	07/27/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182731	10.0	10.0	07/27/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182731	10.0	10.0	07/27/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182731	10.0	10.0	07/27/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182731	10.0	10.0	07/27/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182731	10.0	10.0	07/27/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182731	10.0	10.0	07/27/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182731	10.0	10.0	07/27/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182731	10.0	10.0	07/27/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182731	10.0	10.0	07/27/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182731	10.0	10.0	07/27/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182731	10.0	10.0	07/27/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182731	10.0	10.0	07/27/17

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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
17G0865-20 [WS-AOC12W-SO-63-1A]	B182731	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
17G0865-02 [WS-AOC12W-SO-68-1B]	B182702	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
Batch B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
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	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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 B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Blank (B182731-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	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.5	30-150			
LCS (B182731-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140			
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
LCS Dup (B182731-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.76	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140	1.80	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.709	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	1.69	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Matrix Spike (B182731-MS1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.215	ND	86.1	40-140			
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	77.8	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	55.8	40-140			
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.215	0.067	54.0	40-140			
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg dry	0.215		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg dry	0.215		65.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.215		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.149*		mg/Kg dry	0.215		69.6	30-150			
Matrix Spike (B182731-MS2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.24	0.11	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.219	ND	87.9	40-140			
Aroclor-1260	0.20	0.11	mg/Kg dry	0.219	0.061	63.3	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	57.3	40-140			
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg dry	0.219		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.136*		mg/Kg dry	0.219		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg dry	0.219		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg dry	0.219		68.7	30-150			
Matrix Spike (B182731-MS3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.15	0.11	mg/Kg dry	0.216	ND	71.1	40-140			
Aroclor-1016 [2C]	0.14	0.11	mg/Kg dry	0.216	ND	65.9	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.216	0.094	45.2	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.216	0.094	43.4	40-140			
Surrogate: Decachlorobiphenyl	*0.135*		mg/Kg dry	0.216		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.126*		mg/Kg dry	0.216		58.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg dry	0.216		64.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg dry	0.216		64.8	30-150			
Matrix Spike Dup (B182731-MSD1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.215	ND	93.7	40-140	8.43	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	80.8	40-140	3.75	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	54.5	40-140	1.46	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.215	0.067	56.6	40-140	3.00	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.215		66.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.132*		mg/Kg dry	0.215		61.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.143*		mg/Kg dry	0.215		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg dry	0.215		68.3	30-150			
Matrix Spike Dup (B182731-MSD2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.219	ND	96.6	40-140	10.9	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.219	ND	95.2	40-140	7.95	50	
Aroclor-1260	0.18	0.11	mg/Kg dry	0.219	0.061	56.7	40-140	7.60	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	58.6	40-140	1.48	50	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg dry	0.219		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg dry	0.219		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg dry	0.219		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg dry	0.219		76.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Matrix Spike Dup (B182731-MSD3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.216	ND	81.1	40-140	13.2	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.216	ND	78.9	40-140	17.9	50	
Aroclor-1260	0.21	0.11	mg/Kg dry	0.216	0.094	54.5	40-140	10.0	50	
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.216	0.094	55.0	40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.216		65.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg dry	0.216		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg dry	0.216		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg dry	0.216		76.2	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

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182677 - % Solids										
Duplicate (B182677-DUP1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	89.8		% Wt		93.1			3.61	20	
Duplicate (B182677-DUP2)		**Source: 17G0865-05**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	89.7		% Wt		91.5			1.99	20	
Duplicate (B182677-DUP3)		**Source: 17G0865-17**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	92.3		% Wt		92.7			0.432	20	

con-test® ANALYTICAL LABORATORY

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182731-BS1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

con-test® ANALYTICAL LABORATORY

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182731-BSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.16	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.18	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS2 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.24	
	2	0.000	-0.030	0.030	0.19	23.3
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS3 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.15	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD1 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.17	16.2
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD2 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD3 Date(s) Analyzed: 07/31/2017 07/31/2017

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	0.17	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0

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FLAG/QUALIFIER SUMMARY

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

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

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

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

17G0865

con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-68-1A (MS)	7/20/17	9:00		X	S	V	X								
2	WS-AOC12W-SO-68-1B		9:02							X						
3	WS-AOC12W-SO-68-2		9:04					X								
4	WS-AOC12W-SO-68-3		9:06					X								
5	WS-AOC12W-SO-74-1 (MS-MSD)		9:00					X								
6	WS-AOC12W-SO-74-2		9:01					X								
7	WS-AOC12W-SO-74-3		9:02					X								
8	WS-AOC12W-SO-74-4		9:03					X								
9	WS-AOC12W-SO-65-1		9:17					X								
10	WS-AOC12W-SO-65-2		9:19					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-68-1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12W-SO-74-1 (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

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

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

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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con-test ANALYTICAL LABORATORY

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic					# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-65-3	7/20/17	9:21		X	S	U	X												
12	WS-AOC12W-SO-70-1		9:22					X												
13	WS-AOC12W-SO-70-2A		9:23					X												
14	WS-AOC12W-SO-70-2B		9:24								X		X							
15	WS-AOC12W-SO-70-3		9:25					X												
16	WS-AOC12W-SO-70-4		9:26					X												
17	WS-AOC12W-SO-59-1 (MS-MSD)		9:40					X												
18	WS-AOC12W-SO-59-2		9:42					X												
19	WS-AOC12W-SO-59-3		9:42					X												
20	WS-AOC12W-SO-63-1A		9:32					X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-59-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

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 1630
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 7/20/17 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	26
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: 17G0865

Laboratory Sample ID(s):

17G0865-01 thru 17G0865-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

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

August 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: 17G0865

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0865−01	6
17G0865−02	8
17G0865−03	10
17G0865−04	12
17G0865−05	14
17G0865−06	16
17G0865−07	18
17G0865−08	20
17G0865−09	22
17G0865−10	24
17G0865−11	26
17G0865−12	28
17G0865−13	30
17G0865−14	32
17G0865−15	35
17G0865−16	37
17G0865−17	39
17G0865−18	41
17G0865−19	43
17G0865−20	45
Sample Preparation Information	47
QC Data	49

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 49

B182702 49

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 51

B182731 51

Petroleum Hydrocarbons Analyses 54

B182711 54

Metals Analyses (Total) 55

B182378 55

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 56

B182677 56

Dual Column RPD Report 57

Flag/Qualifier Summary 65

Certifications 66

CÜain of Custody/Sample Receipt 68

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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: 17G0865

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-68-1A	17G0865-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-1B	17G0865-02	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-68-2	17G0865-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-68-3	17G0865-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-1	17G0865-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-2	17G0865-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-3	17G0865-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-74-4	17G0865-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-1	17G0865-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-2	17G0865-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-65-3	17G0865-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-1	17G0865-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2A	17G0865-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-2B	17G0865-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-70-3	17G0865-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-70-4	17G0865-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-1	17G0865-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-2	17G0865-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-59-3	17G0865-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-1A	17G0865-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

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 17:43	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:43	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.1	30-150		7/31/17 17:43
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 17:43
Tetrachloro-m-xylene [1]	75.4	30-150		7/31/17 17:43
Tetrachloro-m-xylene [2]	76.8	30-150		7/31/17 17:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1A Sampled: 7/20/2017 09:00

Sample ID: 17G0865-01

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Chrysene	0.25	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluoranthene	0.21	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
2-Methylnaphthalene	0.33	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Phenanthrene	0.54	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/31/17 11:48	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	34.9	30-130		7/31/17 11:48
2-Fluorobiphenyl	32.1	30-130		7/31/17 11:48
p-Terphenyl-d14	32.4	30-130		7/31/17 11:48

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-1B Sampled: 7/20/2017 09:02

Sample ID: 17G0865-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	7/28/17	7/28/17 10:26	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

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	7/27/17	7/31/17 17:56	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:56	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	75.2	30-150		7/31/17 17:56
Decachlorobiphenyl [2]	72.8	30-150		7/31/17 17:56
Tetrachloro-m-xylene [1]	71.5	30-150		7/31/17 17:56
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 17:56

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-2 Sampled: 7/20/2017 09:04

Sample ID: 17G0865-03

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1262 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:09	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.2	30-150		7/31/17 18:09
Decachlorobiphenyl [2]	79.9	30-150		7/31/17 18:09
Tetrachloro-m-xylene [1]	84.2	30-150		7/31/17 18:09
Tetrachloro-m-xylene [2]	82.5	30-150		7/31/17 18:09

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-68-3 Sampled: 7/20/2017 09:06

Sample ID: 17G0865-04

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	55.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	7/27/17	7/31/17 18:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.0	30-150		7/31/17 18:22
Decachlorobiphenyl [2]	71.5	30-150		7/31/17 18:22
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:22
Tetrachloro-m-xylene [2]	68.0	30-150		7/31/17 18:22

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-1 Sampled: 7/20/2017 09:00

Sample ID: 17G0865-05

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	91.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

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	7/27/17	7/31/17 18:35	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:35	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	80.5	30-150		7/31/17 18:35
Decachlorobiphenyl [2]	74.1	30-150		7/31/17 18:35
Tetrachloro-m-xylene [1]	72.7	30-150		7/31/17 18:35
Tetrachloro-m-xylene [2]	73.1	30-150		7/31/17 18:35

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-2 Sampled: 7/20/2017 09:01

Sample ID: 17G0865-06

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

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	7/27/17	7/31/17 18:47	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:47	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	59.0	30-150		7/31/17 18:47
Decachlorobiphenyl [2]	54.3	30-150		7/31/17 18:47
Tetrachloro-m-xylene [1]	56.1	30-150		7/31/17 18:47
Tetrachloro-m-xylene [2]	59.1	30-150		7/31/17 18:47

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-3 Sampled: 7/20/2017 09:02

Sample ID: 17G0865-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	66.7	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	67.9	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	68.6	30-150		7/31/17 19:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-74-4 Sampled: 7/20/2017 09:03

Sample ID: 17G0865-08

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	73.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

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	7/31/17 19:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	82.4	30-150		7/31/17 19:51
Decachlorobiphenyl [2]	77.8	30-150		7/31/17 19:51
Tetrachloro-m-xylene [1]	73.4	30-150		7/31/17 19:51
Tetrachloro-m-xylene [2]	73.8	30-150		7/31/17 19:51

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-1 Sampled: 7/20/2017 09:17

Sample ID: 17G0865-09

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	7/27/17	7/31/17 20:04	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:04	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.7	30-150		7/31/17 20:04
Decachlorobiphenyl [2]	65.5	30-150		7/31/17 20:04
Tetrachloro-m-xylene [1]	64.3	30-150		7/31/17 20:04
Tetrachloro-m-xylene [2]	65.7	30-150		7/31/17 20:04

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-2 Sampled: 7/20/2017 09:19

Sample ID: 17G0865-10

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	90.5		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.3	30-150		7/31/17 20:16
Decachlorobiphenyl [2]	74.2	30-150		7/31/17 20:16
Tetrachloro-m-xylene [1]	74.4	30-150		7/31/17 20:16
Tetrachloro-m-xylene [2]	74.9	30-150		7/31/17 20:16

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-65-3 Sampled: 7/20/2017 09:21

Sample ID: 17G0865-11

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	71.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	7/27/17	7/31/17 20:29	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.9	30-150		7/31/17 20:29
Decachlorobiphenyl [2]	65.3	30-150		7/31/17 20:29
Tetrachloro-m-xylene [1]	65.0	30-150		7/31/17 20:29
Tetrachloro-m-xylene [2]	67.1	30-150		7/31/17 20:29

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-1 Sampled: 7/20/2017 09:22

Sample ID: 17G0865-12

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	91.6		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	7/27/17	7/31/17 20:42	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.7	30-150		7/31/17 20:42
Decachlorobiphenyl [2]	55.7	30-150		7/31/17 20:42
Tetrachloro-m-xylene [1]	53.8	30-150		7/31/17 20:42
Tetrachloro-m-xylene [2]	54.6	30-150		7/31/17 20:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2A Sampled: 7/20/2017 09:23

Sample ID: 17G0865-13

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	83.9		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	380	55	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/2/17 23:54	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	88.5	50-150		8/2/17 23:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	15	2.7	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:12	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-2B Sampled: 7/20/2017 09:24

Sample ID: 17G0865-14

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	90.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	7/27/17	7/31/17 20:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 20:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.0	30-150		7/31/17 20:54
Decachlorobiphenyl [2]	66.1	30-150		7/31/17 20:54
Tetrachloro-m-xylene [1]	68.3	30-150		7/31/17 20:54
Tetrachloro-m-xylene [2]	70.5	30-150		7/31/17 20:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-3 Sampled: 7/20/2017 09:25

Sample ID: 17G0865-15

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	84.1		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	7/27/17	7/31/17 21:07	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	79.6	30-150		7/31/17 21:07
Decachlorobiphenyl [2]	72.5	30-150		7/31/17 21:07
Tetrachloro-m-xylene [1]	72.6	30-150		7/31/17 21:07
Tetrachloro-m-xylene [2]	73.6	30-150		7/31/17 21:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-70-4 Sampled: 7/20/2017 09:26

Sample ID: 17G0865-16

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	70.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

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	7/27/17	7/31/17 21:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	71.8	30-150		7/31/17 21:19
Decachlorobiphenyl [2]	67.1	30-150		7/31/17 21:19
Tetrachloro-m-xylene [1]	65.5	30-150		7/31/17 21:19
Tetrachloro-m-xylene [2]	66.0	30-150		7/31/17 21:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-1 Sampled: 7/20/2017 09:40

Sample ID: 17G0865-17

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	92.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	7/27/17	7/31/17 21:32	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.9	30-150		7/31/17 21:32
Decachlorobiphenyl [2]	62.5	30-150		7/31/17 21:32
Tetrachloro-m-xylene [1]	65.8	30-150		7/31/17 21:32
Tetrachloro-m-xylene [2]	65.4	30-150		7/31/17 21:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-2 Sampled: 7/20/2017 09:42

Sample ID: 17G0865-18

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	86.7		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1262 [2]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.5	30-150		7/31/17 21:44
Decachlorobiphenyl [2]	76.9	30-150		7/31/17 21:44
Tetrachloro-m-xylene [1]	81.8	30-150		7/31/17 21:44
Tetrachloro-m-xylene [2]	79.1	30-150		7/31/17 21:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-59-3 Sampled: 7/20/2017 09:44

Sample ID: 17G0865-19

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	57.8		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

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	7/27/17	7/31/17 21:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 21:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	81.9	30-150		7/31/17 21:57
Decachlorobiphenyl [2]	75.3	30-150		7/31/17 21:57
Tetrachloro-m-xylene [1]	77.2	30-150		7/31/17 21:57
Tetrachloro-m-xylene [2]	76.4	30-150		7/31/17 21:57

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0865

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1A Sampled: 7/20/2017 09:32

Sample ID: 17G0865-20

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182677	07/28/17
17G0865-02 [WS-AOC12W-SO-68-1B]	B182677	07/28/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182677	07/28/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182677	07/28/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182677	07/28/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182677	07/28/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182677	07/28/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182677	07/28/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182677	07/28/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182677	07/28/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182677	07/28/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182677	07/28/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182677	07/28/17
17G0865-14 [WS-AOC12W-SO-70-2B]	B182677	07/28/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182677	07/28/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182677	07/28/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182677	07/28/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182677	07/28/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182677	07/28/17
17G0865-20 [WS-AOC12W-SO-63-1A]	B182677	07/28/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-14 [WS-AOC12W-SO-70-2B]	B182378	1.01	50.0	07/24/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0865-01 [WS-AOC12W-SO-68-1A]	B182731	10.0	10.0	07/27/17
17G0865-03 [WS-AOC12W-SO-68-2]	B182731	10.0	10.0	07/27/17
17G0865-04 [WS-AOC12W-SO-68-3]	B182731	10.0	10.0	07/27/17
17G0865-05 [WS-AOC12W-SO-74-1]	B182731	10.0	10.0	07/27/17
17G0865-06 [WS-AOC12W-SO-74-2]	B182731	10.0	10.0	07/27/17
17G0865-07 [WS-AOC12W-SO-74-3]	B182731	10.0	10.0	07/27/17
17G0865-08 [WS-AOC12W-SO-74-4]	B182731	10.0	10.0	07/27/17
17G0865-09 [WS-AOC12W-SO-65-1]	B182731	10.0	10.0	07/27/17
17G0865-10 [WS-AOC12W-SO-65-2]	B182731	10.0	10.0	07/27/17
17G0865-11 [WS-AOC12W-SO-65-3]	B182731	10.0	10.0	07/27/17
17G0865-12 [WS-AOC12W-SO-70-1]	B182731	10.0	10.0	07/27/17
17G0865-13 [WS-AOC12W-SO-70-2A]	B182731	10.0	10.0	07/27/17
17G0865-15 [WS-AOC12W-SO-70-3]	B182731	10.0	10.0	07/27/17
17G0865-16 [WS-AOC12W-SO-70-4]	B182731	10.0	10.0	07/27/17
17G0865-17 [WS-AOC12W-SO-59-1]	B182731	10.0	10.0	07/27/17
17G0865-18 [WS-AOC12W-SO-59-2]	B182731	10.0	10.0	07/27/17
17G0865-19 [WS-AOC12W-SO-59-3]	B182731	10.0	10.0	07/27/17

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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
17G0865-20 [WS-AOC12W-SO-63-1A]	B182731	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
17G0865-02 [WS-AOC12W-SO-68-1B]	B182702	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
Batch B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
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	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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 B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Blank (B182731-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	*0.186*		mg/Kg wet	0.200		93.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg wet	0.200		91.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.161*		mg/Kg wet	0.200		80.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.171*		mg/Kg wet	0.200		85.5	30-150			
LCS (B182731-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		80.9	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.2	40-140			
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		75.9	40-140			
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		87.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.154*		mg/Kg wet	0.200		76.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg wet	0.200		82.1	30-150			
LCS Dup (B182731-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.4	40-140	1.76	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		85.3	40-140	1.80	30	
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		75.8	40-140	0.709	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		74.7	40-140	1.69	30	
Surrogate: Decachlorobiphenyl	*0.181*		mg/Kg wet	0.200		90.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.171*		mg/Kg wet	0.200		85.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.158*		mg/Kg wet	0.200		78.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.167*		mg/Kg wet	0.200		83.7	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Matrix Spike (B182731-MS1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.18	0.11	mg/Kg dry	0.215	ND	86.1	40-140			
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	77.8	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	55.8	40-140			
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.215	0.067	54.0	40-140			
Surrogate: Decachlorobiphenyl	*0.153*		mg/Kg dry	0.215		71.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.141*		mg/Kg dry	0.215		65.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.150*		mg/Kg dry	0.215		69.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.149*		mg/Kg dry	0.215		69.6	30-150			
Matrix Spike (B182731-MS2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.24	0.11	mg/Kg dry	0.219	ND	108	40-140			
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.219	ND	87.9	40-140			
Aroclor-1260	0.20	0.11	mg/Kg dry	0.219	0.061	63.3	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	57.3	40-140			
Surrogate: Decachlorobiphenyl	*0.146*		mg/Kg dry	0.219		66.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.136*		mg/Kg dry	0.219		62.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.157*		mg/Kg dry	0.219		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.150*		mg/Kg dry	0.219		68.7	30-150			
Matrix Spike (B182731-MS3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.15	0.11	mg/Kg dry	0.216	ND	71.1	40-140			
Aroclor-1016 [2C]	0.14	0.11	mg/Kg dry	0.216	ND	65.9	40-140			
Aroclor-1260	0.19	0.11	mg/Kg dry	0.216	0.094	45.2	40-140			
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.216	0.094	43.4	40-140			
Surrogate: Decachlorobiphenyl	*0.135*		mg/Kg dry	0.216		62.6	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.126*		mg/Kg dry	0.216		58.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.139*		mg/Kg dry	0.216		64.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.140*		mg/Kg dry	0.216		64.8	30-150			
Matrix Spike Dup (B182731-MSD1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.215	ND	93.7	40-140	8.43	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.215	ND	80.8	40-140	3.75	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.215	0.074	54.5	40-140	1.46	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.215	0.067	56.6	40-140	3.00	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.215		66.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.132*		mg/Kg dry	0.215		61.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.143*		mg/Kg dry	0.215		66.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.147*		mg/Kg dry	0.215		68.3	30-150			
Matrix Spike Dup (B182731-MSD2)		**Source: 17G0865-05**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.219	ND	96.6	40-140	10.9	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.219	ND	95.2	40-140	7.95	50	
Aroclor-1260	0.18	0.11	mg/Kg dry	0.219	0.061	56.7	40-140	7.60	50	
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	0.064	58.6	40-140	1.48	50	
Surrogate: Decachlorobiphenyl	*0.151*		mg/Kg dry	0.219		68.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.140*		mg/Kg dry	0.219		64.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.170*		mg/Kg dry	0.219		77.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.166*		mg/Kg dry	0.219		76.0	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182731 - SW-846 3540C										
Matrix Spike Dup (B182731-MSD3)		**Source: 17G0865-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.11	mg/Kg dry	0.216	ND	81.1	40-140	13.2	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.216	ND	78.9	40-140	17.9	50	
Aroclor-1260	0.21	0.11	mg/Kg dry	0.216	0.094	54.5	40-140	10.0	50	
Aroclor-1260 [2C]	0.21	0.11	mg/Kg dry	0.216	0.094	55.0	40-140	12.4	50	
Surrogate: Decachlorobiphenyl	*0.142*		mg/Kg dry	0.216		65.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.137*		mg/Kg dry	0.216		63.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg dry	0.216		75.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.164*		mg/Kg dry	0.216		76.2	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

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	30	

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QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182677 - % Solids										
Duplicate (B182677-DUP1)		**Source: 17G0865-01**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	89.8		% Wt		93.1			3.61	20	
Duplicate (B182677-DUP2)		**Source: 17G0865-05**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	89.7		% Wt		91.5			1.99	20	
Duplicate (B182677-DUP3)		**Source: 17G0865-17**		Prepared: 07/28/17 Analyzed: 07/29/17						
% Solids	92.3		% Wt		92.7			0.432	20	

con-test® ANALYTICAL LABORATORY

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

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182731-BS1 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.16	
	2	0.000	-0.030	0.030	0.17	6.1
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182731-BSD1 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.16	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS1 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.18	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

con-test® ANALYTICAL LABORATORY

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS2 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.24	
	2	0.000	-0.030	0.030	0.19	23.3
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.19	5.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182731-MS3

Date(s) Analyzed 07/31/2017 07/31/2017

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	0.15	
	2	0.000	-0.030	0.030	0.14	6.9
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD1

Date(s) Analyzed 07/31/2017 07/31/2017

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	0.17	16.2
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD2 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.21	
	2	0.000	-0.030	0.030	0.21	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182731-MSD3 Date(s) Analyzed 07/31/2017 07/31/2017

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	0.17	
	2	0.000	-0.030	0.030	0.17	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.21	0.0

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FLAG/QUALIFIER SUMMARY

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

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

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

con-test® ANALYTICAL LABORATORY

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

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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

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

17G0865

con-test ANALYTICAL LABORATORY

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

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-68-1A (MS)	7/20/17	9:00		X	S	V	X								
2	WS-AOC12W-SO-68-1B		9:02							X						
3	WS-AOC12W-SO-68-2		9:04					X								
4	WS-AOC12W-SO-68-3		9:06					X								
5	WS-AOC12W-SO-74-1 (MS-MSD)		9:00					X								
6	WS-AOC12W-SO-74-2		9:01					X								
7	WS-AOC12W-SO-74-3		9:02					X								
8	WS-AOC12W-SO-74-4		9:03					X								
9	WS-AOC12W-SO-65-1		9:17					X								
10	WS-AOC12W-SO-65-2		9:19					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:
WS-AOC12W-SO-68-1A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12W-SO-74-1 (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

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

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

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

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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Table of Contents

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con-test ANALYTICAL LABORATORY

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

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

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

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

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

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic					# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-65-3	7/20/17	9:21		X	S	U	X												
12	WS-AOC12W-SO-70-1		9:22					X												
13	WS-AOC12W-SO-70-2A		9:23					X												
14	WS-AOC12W-SO-70-2B		9:24								X		X							
15	WS-AOC12W-SO-70-3		9:25					X												
16	WS-AOC12W-SO-70-4		9:26					X												
17	WS-AOC12W-SO-59-1 (MS-MSD)		9:40					X												
18	WS-AOC12W-SO-59-2		9:42					X												
19	WS-AOC12W-SO-59-3		9:42					X												
20	WS-AOC12W-SO-63-1A		9:32					X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:
WS-AOC12W-SO-59-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

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 1630
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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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 7/20/17 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	26
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: 17G0865

Laboratory Sample ID(s):

17G0865-01 thru 17G0865-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

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

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

con-test® ANALYTICAL LABORATORY
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August 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: 17G0866

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0866-01	6
17G0866-02	8
17G0866-03	10
17G0866-04	12
17G0866-05	14
17G0866-06	16
17G0866-07	18
17G0866-08	20
17G0866-09	22
17G0866-10	24
17G0866-11	26
17G0866-12	28
17G0866-13	30
17G0866-14	32
17G0866-15	35
17G0866-16	37
17G0866-17	39
17G0866-18	41
17G0866-19	43
17G0866-20	45
Sample Preparation Information	47
QC Data	49

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 49

B182702 49

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 51

B182730 51

Petroleum Hydrocarbons Analyses 53

B182711 53

Metals Analyses (Total) 54

B182378 54

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 55

B182677 55

Dual Column RPD Report 56

Flag/Qualifier Summary 61

Certifications 62

CÜain of Custody/Sample Receipt 64

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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: 17G0866

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-63-1B	17G0866-01	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-63-2	17G0866-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-63-3	17G0866-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-1	17G0866-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-2	17G0866-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-61-3	17G0866-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-1	17G0866-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-2	17G0866-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-55-3	17G0866-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-1	17G0866-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-2	17G0866-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-51-3	17G0866-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-1A	17G0866-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-1B	17G0866-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
WS-AOC12W-SO-57-2	17G0866-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-57-3	17G0866-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-1	17G0866-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-2	17G0866-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-53-3	17G0866-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-48-1	17G0866-20	Soil		SM 2540G	
				SW-846 8082A	

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CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

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

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

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

Lisa A. Worthington
Project Manager

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1B Sampled: 7/20/2017 09:33

Sample ID: 17G0866-01

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
2-Methylnaphthalene	0.19	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Phenanthrene	0.35	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	7/27/17	7/28/17 23:17	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	32.0	30-130		7/28/17 23:17
2-Fluorobiphenyl	30.7	30-130		7/28/17 23:17
p-Terphenyl-d14	33.8	30-130		7/28/17 23:17

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-1B Sampled: 7/20/2017 09:33

Sample ID: 17G0866-01

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	90.4		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-2 Sampled: 7/20/2017 09:34

Sample ID: 17G0866-02

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	7/27/17	7/31/17 13:40	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.6	30-150		7/31/17 13:40
Decachlorobiphenyl [2]	109	30-150		7/31/17 13:40
Tetrachloro-m-xylene [1]	86.1	30-150		7/31/17 13:40
Tetrachloro-m-xylene [2]	93.4	30-150		7/31/17 13:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-2 Sampled: 7/20/2017 09:34

Sample ID: 17G0866-02

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.2		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-3 Sampled: 7/20/2017 09:35

Sample ID: 17G0866-03

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	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1254 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 13:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.1	30-150		7/31/17 13:53
Decachlorobiphenyl [2]	111	30-150		7/31/17 13:53
Tetrachloro-m-xylene [1]	90.2	30-150		7/31/17 13:53
Tetrachloro-m-xylene [2]	99.1	30-150		7/31/17 13:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-63-3 Sampled: 7/20/2017 09:35

Sample ID: 17G0866-03

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	54.2		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-1 Sampled: 7/20/2017 09:50

Sample ID: 17G0866-04

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	7/27/17	7/31/17 14:06	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.8	30-150		7/31/17 14:06
Decachlorobiphenyl [2]	113	30-150		7/31/17 14:06
Tetrachloro-m-xylene [1]	96.9	30-150		7/31/17 14:06
Tetrachloro-m-xylene [2]	105	30-150		7/31/17 14:06

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-1 Sampled: 7/20/2017 09:50

Sample ID: 17G0866-04

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	94.3		% Wt	1		SM 2540G	7/28/17	7/29/17 5:34	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-2 Sampled: 7/20/2017 09:51

Sample ID: 17G0866-05

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	7/27/17	7/31/17 14:18	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.1	30-150		7/31/17 14:18
Decachlorobiphenyl [2]	107	30-150		7/31/17 14:18
Tetrachloro-m-xylene [1]	85.9	30-150		7/31/17 14:18
Tetrachloro-m-xylene [2]	93.2	30-150		7/31/17 14:18

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-2 Sampled: 7/20/2017 09:51

Sample ID: 17G0866-05

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-3 Sampled: 7/20/2017 09:52

Sample ID: 17G0866-06

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	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.0	30-150		7/31/17 14:36
Decachlorobiphenyl [2]	104	30-150		7/31/17 14:36
Tetrachloro-m-xylene [1]	91.8	30-150		7/31/17 14:36
Tetrachloro-m-xylene [2]	97.9	30-150		7/31/17 14:36

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-61-3 Sampled: 7/20/2017 09:52

Sample ID: 17G0866-06

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-1 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-07

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	7/31/17 14:54	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 14:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		7/31/17 14:54
Decachlorobiphenyl [2]	107	30-150		7/31/17 14:54
Tetrachloro-m-xylene [1]	87.6	30-150		7/31/17 14:54
Tetrachloro-m-xylene [2]	96.4	30-150		7/31/17 14:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-1 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-07

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-2 Sampled: 7/20/2017 10:06

Sample ID: 17G0866-08

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	7/27/17	7/31/17 15:12	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 15:12	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		7/31/17 15:12
Decachlorobiphenyl [2]	104	30-150		7/31/17 15:12
Tetrachloro-m-xylene [1]	86.5	30-150		7/31/17 15:12
Tetrachloro-m-xylene [2]	91.0	30-150		7/31/17 15:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-2 Sampled: 7/20/2017 10:06

Sample ID: 17G0866-08

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	93.5		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-3 Sampled: 7/20/2017 10:08

Sample ID: 17G0866-09

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	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.6	30-150		7/31/17 16:19
Decachlorobiphenyl [2]	110	30-150		7/31/17 16:19
Tetrachloro-m-xylene [1]	90.4	30-150		7/31/17 16:19
Tetrachloro-m-xylene [2]	97.1	30-150		7/31/17 16:19

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-55-3 Sampled: 7/20/2017 10:08

Sample ID: 17G0866-09

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	68.3		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-1 Sampled: 7/20/2017 10:10

Sample ID: 17G0866-10

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	7/27/17	7/31/17 16:37	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:37	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		7/31/17 16:37
Decachlorobiphenyl [2]	118	30-150		7/31/17 16:37
Tetrachloro-m-xylene [1]	94.8	30-150		7/31/17 16:37
Tetrachloro-m-xylene [2]	104	30-150		7/31/17 16:37

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-1 Sampled: 7/20/2017 10:10

Sample ID: 17G0866-10

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	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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-2 Sampled: 7/20/2017 10:12

Sample ID: 17G0866-11

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	7/27/17	7/31/17 16:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 16:55	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		7/31/17 16:55
Decachlorobiphenyl [2]	84.0	30-150		7/31/17 16:55
Tetrachloro-m-xylene [1]	70.0	30-150		7/31/17 16:55
Tetrachloro-m-xylene [2]	74.3	30-150		7/31/17 16:55

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-2 Sampled: 7/20/2017 10:12

Sample ID: 17G0866-11

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% Wt	1		SM 2540G	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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-3 Sampled: 7/20/2017 10:14

Sample ID: 17G0866-12

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	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		7/31/17 17:13
Decachlorobiphenyl [2]	121	30-150		7/31/17 17:13
Tetrachloro-m-xylene [1]	93.9	30-150		7/31/17 17:13
Tetrachloro-m-xylene [2]	98.5	30-150		7/31/17 17:13

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-51-3 Sampled: 7/20/2017 10:14

Sample ID: 17G0866-12

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	66.7		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1A Sampled: 7/20/2017 10:02

Sample ID: 17G0866-13

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	7/31/17 17:31	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		7/31/17 17:31
Decachlorobiphenyl [2]	107	30-150		7/31/17 17:31
Tetrachloro-m-xylene [1]	85.6	30-150		7/31/17 17:31
Tetrachloro-m-xylene [2]	95.0	30-150		7/31/17 17:31

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1A Sampled: 7/20/2017 10:02

Sample ID: 17G0866-13

Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.1		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	430	61	mg/Kg dry	5		CTDEP ETPH	7/27/17	8/3/17 0:12	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	87.7	50-150		8/3/17 0:12

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	6.5	2.9	mg/Kg dry	1		SW-846 6010C-D	7/24/17	7/26/17 12:16	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-1B Sampled: 7/20/2017 10:03

Sample ID: 17G0866-14

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

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

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-2 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-15

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	7/27/17	7/31/17 17:49	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 17:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.4	30-150		7/31/17 17:49
Decachlorobiphenyl [2]	101	30-150		7/31/17 17:49
Tetrachloro-m-xylene [1]	81.6	30-150		7/31/17 17:49
Tetrachloro-m-xylene [2]	85.6	30-150		7/31/17 17:49

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-2 Sampled: 7/20/2017 10:04

Sample ID: 17G0866-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-3 Sampled: 7/20/2017 10:05

Sample ID: 17G0866-16

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	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		7/31/17 18:07
Decachlorobiphenyl [2]	114	30-150		7/31/17 18:07
Tetrachloro-m-xylene [1]	93.7	30-150		7/31/17 18:07
Tetrachloro-m-xylene [2]	99.9	30-150		7/31/17 18:07

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-57-3 Sampled: 7/20/2017 10:05

Sample ID: 17G0866-16

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	79.1		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-1 Sampled: 7/20/2017 10:15

Sample ID: 17G0866-17

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	7/31/17 18:25	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	73.3	30-150		7/31/17 18:25
Decachlorobiphenyl [2]	82.9	30-150		7/31/17 18:25
Tetrachloro-m-xylene [1]	66.3	30-150		7/31/17 18:25
Tetrachloro-m-xylene [2]	71.0	30-150		7/31/17 18:25

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-1 Sampled: 7/20/2017 10:15

Sample ID: 17G0866-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-2 Sampled: 7/20/2017 10:16

Sample ID: 17G0866-18

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	7/27/17	7/31/17 18:42	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 18:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.0	30-150		7/31/17 18:42
Decachlorobiphenyl [2]	105	30-150		7/31/17 18:42
Tetrachloro-m-xylene [1]	89.9	30-150		7/31/17 18:42
Tetrachloro-m-xylene [2]	92.0	30-150		7/31/17 18:42

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-2 Sampled: 7/20/2017 10:16

Sample ID: 17G0866-18

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	90.3		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-3 Sampled: 7/20/2017 10:17

Sample ID: 17G0866-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:00	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	93.7	30-150		7/31/17 19:00
Decachlorobiphenyl [2]	118	30-150		7/31/17 19:00
Tetrachloro-m-xylene [1]	86.8	30-150		7/31/17 19:00
Tetrachloro-m-xylene [2]	93.6	30-150		7/31/17 19:00

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-53-3 Sampled: 7/20/2017 10:17

Sample ID: 17G0866-19

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	71.1		% 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: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-1 Sampled: 7/20/2017 10:30

Sample ID: 17G0866-20

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	7/27/17	7/31/17 19:18	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1260 [2]	0.19	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/27/17	7/31/17 19:18	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	96.1	30-150		7/31/17 19:18
Decachlorobiphenyl [2]	109	30-150		7/31/17 19:18
Tetrachloro-m-xylene [1]	88.7	30-150		7/31/17 19:18
Tetrachloro-m-xylene [2]	95.9	30-150		7/31/17 19:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0866

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-48-1 Sampled: 7/20/2017 10:30

Sample ID: 17G0866-20

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	92.7		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-14 [WS-AOC12W-SO-57-1B]	B182711	30.0	1.00	07/27/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G0866-01 [WS-AOC12W-SO-63-1B]	B182677	07/28/17
17G0866-02 [WS-AOC12W-SO-63-2]	B182677	07/28/17
17G0866-03 [WS-AOC12W-SO-63-3]	B182677	07/28/17
17G0866-04 [WS-AOC12W-SO-61-1]	B182677	07/28/17
17G0866-05 [WS-AOC12W-SO-61-2]	B182677	07/27/17
17G0866-06 [WS-AOC12W-SO-61-3]	B182677	07/27/17
17G0866-07 [WS-AOC12W-SO-55-1]	B182677	07/27/17
17G0866-08 [WS-AOC12W-SO-55-2]	B182677	07/27/17
17G0866-09 [WS-AOC12W-SO-55-3]	B182677	07/27/17
17G0866-10 [WS-AOC12W-SO-51-1]	B182677	07/27/17
17G0866-11 [WS-AOC12W-SO-51-2]	B182677	07/27/17
17G0866-12 [WS-AOC12W-SO-51-3]	B182677	07/27/17
17G0866-13 [WS-AOC12W-SO-57-1A]	B182677	07/27/17
17G0866-14 [WS-AOC12W-SO-57-1B]	B182677	07/27/17
17G0866-15 [WS-AOC12W-SO-57-2]	B182677	07/27/17
17G0866-16 [WS-AOC12W-SO-57-3]	B182677	07/27/17
17G0866-17 [WS-AOC12W-SO-53-1]	B182677	07/27/17
17G0866-18 [WS-AOC12W-SO-53-2]	B182677	07/27/17
17G0866-19 [WS-AOC12W-SO-53-3]	B182677	07/27/17
17G0866-20 [WS-AOC12W-SO-48-1]	B182677	07/27/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-14 [WS-AOC12W-SO-57-1B]	B182378	1.05	50.0	07/24/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G0866-02 [WS-AOC12W-SO-63-2]	B182730	10.0	10.0	07/27/17
17G0866-03 [WS-AOC12W-SO-63-3]	B182730	10.0	10.0	07/27/17
17G0866-04 [WS-AOC12W-SO-61-1]	B182730	10.0	10.0	07/27/17
17G0866-05 [WS-AOC12W-SO-61-2]	B182730	10.0	10.0	07/27/17
17G0866-06 [WS-AOC12W-SO-61-3]	B182730	10.0	10.0	07/27/17
17G0866-07 [WS-AOC12W-SO-55-1]	B182730	10.0	10.0	07/27/17
17G0866-08 [WS-AOC12W-SO-55-2]	B182730	10.0	10.0	07/27/17
17G0866-09 [WS-AOC12W-SO-55-3]	B182730	10.0	10.0	07/27/17
17G0866-10 [WS-AOC12W-SO-51-1]	B182730	10.0	10.0	07/27/17
17G0866-11 [WS-AOC12W-SO-51-2]	B182730	10.0	10.0	07/27/17
17G0866-12 [WS-AOC12W-SO-51-3]	B182730	10.0	10.0	07/27/17
17G0866-13 [WS-AOC12W-SO-57-1A]	B182730	10.0	10.0	07/27/17
17G0866-15 [WS-AOC12W-SO-57-2]	B182730	10.0	10.0	07/27/17
17G0866-16 [WS-AOC12W-SO-57-3]	B182730	10.0	10.0	07/27/17
17G0866-17 [WS-AOC12W-SO-53-1]	B182730	10.0	10.0	07/27/17
17G0866-18 [WS-AOC12W-SO-53-2]	B182730	10.0	10.0	07/27/17
17G0866-19 [WS-AOC12W-SO-53-3]	B182730	10.0	10.0	07/27/17

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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
17G0866-20 [WS-AOC12W-SO-48-1]	B182730	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
17G0866-01 [WS-AOC12W-SO-63-1B]	B182702	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
Batch B182702 - SW-846 3546										
Blank (B182702-BLK1)				Prepared: 07/27/17 Analyzed: 07/28/17						
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	*1.56*		mg/Kg wet	3.33		46.8	30-130			
Surrogate: 2-Fluorobiphenyl	*1.50*		mg/Kg wet	3.33		44.9	30-130			
Surrogate: p-Terphenyl-d14	*1.56*		mg/Kg wet	3.33		46.8	30-130			
LCS (B182702-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	1.17	0.17	mg/Kg wet	1.67		70.5	40-140			
Acenaphthylene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Anthracene	1.21	0.17	mg/Kg wet	1.67		72.4	40-140			
Benzo(a)anthracene	1.24	0.17	mg/Kg wet	1.67		74.4	40-140			
Benzo(a)pyrene	1.21	0.17	mg/Kg wet	1.67		72.7	40-140			
Benzo(b)fluoranthene	1.12	0.17	mg/Kg wet	1.67		67.1	40-140			
Benzo(g,h,i)perylene	1.48	0.17	mg/Kg wet	1.67		88.5	40-140			
Benzo(k)fluoranthene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Chrysene	1.24	0.17	mg/Kg wet	1.67		74.1	40-140			
Dibenz(a,h)anthracene	1.39	0.17	mg/Kg wet	1.67		83.3	40-140			
Fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.3	40-140			
Fluorene	1.18	0.17	mg/Kg wet	1.67		70.6	40-140			
Indeno(1,2,3-cd)pyrene	1.35	0.17	mg/Kg wet	1.67		81.0	40-140			
2-Methylnaphthalene	1.20	0.17	mg/Kg wet	1.67		71.8	40-140			
Naphthalene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Phenanthrene	1.20	0.17	mg/Kg wet	1.67		72.2	40-140			
Pyrene	1.31	0.17	mg/Kg wet	1.67		78.6	40-140			
Surrogate: Nitrobenzene-d5	*2.68*		mg/Kg wet	3.33		80.4	30-130			
Surrogate: 2-Fluorobiphenyl	*2.68*		mg/Kg wet	3.33		80.5	30-130			
Surrogate: p-Terphenyl-d14	*2.96*		mg/Kg wet	3.33		88.7	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 B182702 - SW-846 3546										
LCS Dup (B182702-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Acenaphthene	0.953	0.17	mg/Kg wet	1.67		57.2	40-140	20.8	30	
Acenaphthylene	0.915	0.17	mg/Kg wet	1.67		54.9	40-140	21.6	30	
Anthracene	0.982	0.17	mg/Kg wet	1.67		58.9	40-140	20.6	30	
Benzo(a)anthracene	1.01	0.17	mg/Kg wet	1.67		60.4	40-140	20.7	30	
Benzo(a)pyrene	0.995	0.17	mg/Kg wet	1.67		59.7	40-140	19.7	30	
Benzo(b)fluoranthene	0.918	0.17	mg/Kg wet	1.67		55.1	40-140	19.8	30	
Benzo(g,h,i)perylene	1.21	0.17	mg/Kg wet	1.67		72.6	40-140	19.8	30	
Benzo(k)fluoranthene	0.903	0.17	mg/Kg wet	1.67		54.2	40-140	22.4	30	
Chrysene	0.989	0.17	mg/Kg wet	1.67		59.3	40-140	22.2	30	
Dibenz(a,h)anthracene	1.14	0.17	mg/Kg wet	1.67		68.3	40-140	19.8	30	
Fluoranthene	0.901	0.17	mg/Kg wet	1.67		54.0	40-140	18.8	30	
Fluorene	0.946	0.17	mg/Kg wet	1.67		56.7	40-140	21.7	30	
Indeno(1,2,3-cd)pyrene	1.10	0.17	mg/Kg wet	1.67		66.3	40-140	20.0	30	
2-Methylnaphthalene	0.983	0.17	mg/Kg wet	1.67		59.0	40-140	19.6	30	
Naphthalene	0.960	0.17	mg/Kg wet	1.67		57.6	40-140	16.5	30	
Phenanthrene	0.979	0.17	mg/Kg wet	1.67		58.8	40-140	20.5	30	
Pyrene	1.04	0.17	mg/Kg wet	1.67		62.4	40-140	22.9	30	
Surrogate: Nitrobenzene-d5	*2.25*		mg/Kg wet	3.33		67.6	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.6	30-130			
Surrogate: p-Terphenyl-d14	*2.33*		mg/Kg wet	3.33		70.0	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182730 - SW-846 3540C										
Blank (B182730-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	*0.196*		mg/Kg wet	0.200		98.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.230*		mg/Kg wet	0.200		115	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.201*		mg/Kg wet	0.200		100	30-150			
LCS (B182730-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		81.6	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		101	40-140			
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200		74.8	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6	40-140			
Surrogate: Decachlorobiphenyl	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.228*		mg/Kg wet	0.200		114	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.199*		mg/Kg wet	0.200		99.4	30-150			
LCS Dup (B182730-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.0	40-140	6.37	30	
Aroclor-1016 [2C]	0.21	0.020	mg/Kg wet	0.200		105	40-140	3.76	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		78.7	40-140	5.17	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		94.0	40-140	2.62	30	
Surrogate: Decachlorobiphenyl	*0.201*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.227*		mg/Kg wet	0.200		113	30-150			
Surrogate: Tetrachloro-m-xylene	*0.189*		mg/Kg wet	0.200		94.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.202*		mg/Kg wet	0.200		101	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 B182730 - SW-846 3540C										
Matrix Spike (B182730-MS1)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.19	0.12	mg/Kg dry	0.231	ND	81.3	40-140			
Aroclor-1016 [2C]	0.23	0.12	mg/Kg dry	0.231	ND	98.9	40-140			
Aroclor-1260	0.23	0.12	mg/Kg dry	0.231	0.069	69.0	40-140			
Aroclor-1260 [2C]	0.28	0.12	mg/Kg dry	0.231	0.094	80.6	40-140			
Surrogate: Decachlorobiphenyl	*0.210*		mg/Kg dry	0.231		91.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.236*		mg/Kg dry	0.231		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.194*		mg/Kg dry	0.231		84.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.208*		mg/Kg dry	0.231		90.0	30-150			
Matrix Spike Dup (B182730-MSD1)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/31/17						
Aroclor-1016	0.21	0.12	mg/Kg dry	0.231	ND	89.1	40-140	9.09	50	
Aroclor-1016 [2C]	0.27	0.12	mg/Kg dry	0.231	ND	119	40-140	18.6	50	
Aroclor-1260	0.26	0.12	mg/Kg dry	0.231	0.069	83.1	40-140	13.3	50	
Aroclor-1260 [2C]	0.32	0.12	mg/Kg dry	0.231	0.094	96.4	40-140	12.2	50	
Surrogate: Decachlorobiphenyl	*0.232*		mg/Kg dry	0.231		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.259*		mg/Kg dry	0.231		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.213*		mg/Kg dry	0.231		92.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.231		97.1	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182378 - SW-846 3050B										
Blank (B182378-BLK1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182378-BS1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	54.2	5.0	mg/Kg wet	57.0		95.1	77.8-122.1			
LCS Dup (B182378-BSD1)				Prepared: 07/24/17 Analyzed: 07/26/17						
Arsenic	53.8	5.1	mg/Kg wet	57.0		94.4	77.8-122.1	0.736	30	

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182677 - % Solids										
Duplicate (B182677-DUP4)		**Source: 17G0866-17**		Prepared: 07/27/17 Analyzed: 07/28/17						
% Solids	86.7		% Wt		86.7			0.00	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-48-1

Lab Sample ID: 17G0866-20

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	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182730-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	0.16	
	2	0.000	-0.030	0.030	0.20	22.2
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.18	18.2

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182730-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	0.17	
	2	0.000	-0.030	0.030	0.21	21.1
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.19	17.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182730-MS1 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	0.19	
	2	0.000	-0.030	0.030	0.23	19.0
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.28	19.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182730-MSD1 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	0.21	
	2	0.000	-0.030	0.030	0.27	25.0
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.32	20.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1740866

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	Preservation Code	Container Code
1	WS-AOC12W-SO-63-1B	7/20/17	9:33		X	S	U			X						
2	WS-AOC12W-SO-63-2		9:34					X								
3	WS-AOC12W-SO-63-3		9:35					X								
4	WS-AOC12W-SO-61-1		9:50					X								
5	WS-AOC12W-SO-61-2		9:51					X								
6	WS-AOC12W-SO-61-3		9:52					X								
7	WS-AOC12W-SO-55-1		10:04					X								
8	WS-AOC12W-SO-55-2		10:06					X								
9	WS-AOC12W-SO-55-3		10:08					X								
10	WS-AOC12W-SO-51-1		10:10					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
	7/20/17 1535
Received by: (signature)	Date/Time:
	7/20/17 1535
Relinquished by: (signature)	Date/Time:
	7-20-17 6:30
Received by: (signature)	Date/Time:
	7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-51-2	7/20/17	10:12		X	S	U	X								
12	WS-AOC12W-SO-51-3		10:14					X								
13	WS-AOC12W-SO-57-1A		10:02					X								
14	WS-AOC12W-SO-57-1B		10:03								X		X			
15	WS-AOC12W-SO-57-2		10:04					X								
16	WS-AOC12W-SO-57-3		10:05					X								
17	WS-AOC12W-SO-53-1 (MS-MSD)		10:15					X								
18	WS-AOC12W-SO-53-2		10:16					X								
19	WS-AOC12W-SO-53-3		10:17					X								
20	WS-AOC12W-SO-48-1		10:30					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:
WS-AOC12W-SO-53-1 (MS-MSD
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

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 1830
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By 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~~ T 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 ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\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: 17G0866

Laboratory Sample ID(s):

17G0866-01 thru 17G0866-20

Sample Date(s):

07/20/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 15, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0867-01	6
17G0867-02	8
17G0867-03	10
17G0867-04	12
17G0867-05	14
17G0867-06	16
17G0867-07	18
17G0867-08	20
17G0867-09	22
17G0867-10	24
17G0867-11	26
17G0867-12	28
17G0867-13	30
17G0867-14	32
17G0867-15	34
17G0867-16	36
17G0867-17	38
17G0867-18	40
17G0867-19	42
17G0867-20	44
Sample Preparation Information	46
QC Data	48

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 48

B182710 48

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 50

B182736 50

Petroleum Hydrocarbons Analyses 52

B182711 52

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 53

B182677 53

Dual Column RPD Report 54

Flag/Qualifier Summary 67

Certifications 68

Chain of Custody/Sample Receipt 70

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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: 8/15/2017

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-SO-87-1	17G0867-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2A	17G0867-09	Water		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-2B	17G0867-10	Soil		SM 2540G	
				SW-846 8270D	
WS-AOC12W-SO-87-3	17G0867-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-87-4	17G0867-12	Water		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	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

REVISED REPORT 08/15/17 - Sample IDs updated per chain of custody.

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-SO-87-4]

Decachlorobiphenyl [2C]
17G0867-12[WS-AOC12W-SO-87-4]

Tetrachloro-m-xylene
17G0867-12[WS-AOC12W-SO-87-4]

Tetrachloro-m-xylene [2C]
17G0867-12[WS-AOC12W-SO-87-4]

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.

James M. Georgantas
Project Management Supervisor

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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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-48-2 Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

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	90.8		% 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-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

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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-48-3 Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

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	53.8		% 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-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

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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-88-1 Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

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	98.4		% 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-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/APHA/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

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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-88-2B 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

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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-88-2B Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

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	98.2		% 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-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

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39 Spruce Street * 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% Wt	1		SM 2540G	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-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

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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-88-4 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

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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-87-1 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

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39 Spruce Street * 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-87-1 Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

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	98.3		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-87-2A Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

Polychlorinated 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-SO-87-2A Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	7/27/17	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-87-2B 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-SO-87-2B Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

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	90.1		% 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-SO-87-3 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-SO-87-3 Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

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	82.4		% 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-SO-87-4 Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

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-SO-87-4 Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/27/17	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/APHA/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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	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/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	7/27/17	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-97-4 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

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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-97-4 Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

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	83.5		% 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-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

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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-89-1 Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

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	97.7		% 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-89-2 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

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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-89-2 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

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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-SO-87-1]	B182677	07/27/17
17G0867-09 [WS-AOC12W-SO-87-2A]	B182677	07/27/17
17G0867-10 [WS-AOC12W-SO-87-2B]	B182677	07/27/17
17G0867-11 [WS-AOC12W-SO-87-3]	B182677	07/27/17
17G0867-12 [WS-AOC12W-SO-87-4]	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-SO-87-1]	B182736	10.0	10.0	07/27/17
17G0867-09 [WS-AOC12W-SO-87-2A]	B182736	10.0	10.0	07/27/17
17G0867-11 [WS-AOC12W-SO-87-3]	B182736	10.0	10.0	07/27/17
17G0867-12 [WS-AOC12W-SO-87-4]	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-SO-87-2B]	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
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
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
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

SW-846 8082A

WS-AOC12W-SO-88-1

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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-3

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-1

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-2A

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-1

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-2

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Cox Hist / PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-48-2	7/20/17	10:32		X	S	U	X								
2	WS-AOC12W-SO-48-3		10:34					X								
3	WS-AOC12W-SO-88-1		13:25					X								
4	WS-AOC12W-SO-88-2A		13:26					X								
5	WS-AOC12W-SO-88-2B		13:27								X					
6	WS-AOC12W-SO-88-3		13:28					X								
7	WS-AOC12W-SO-88-4		13:29					X								
8	WS-AOC12W-SO-87-1		13:30					X								
9	WS-AOC12W-SO-87-2A		13:31					X								
10	WS-AOC12W-SO-87-2B		13:32							X						

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
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:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

1760867

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Doc # 381 Rev 0 5 8 2015

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Phone: 413-525-2332
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Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-87-3	7/20/17	13:33		X	S	U	X								
12	WS-AOC12W-SO-87-4		13:34					X								
13	WS-AOC12W-SO-97-1		13:57					X								
14	WS-AOC12W-SO-97-2A		13:59					X								
15	WS-AOC12W-SO-97-2B		14:01							X						
16	WS-AOC12W-SO-97-3		14:03					X								
17	WS-AOC12W-SO-97-4		14:05					X								
18	WS-AOC12W-SO-89-1		13:50					X								
19	WS-AOC12W-SO-89-2		13:51					X								
20	WS-AOC12W-SO-89-3		13:52					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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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 7/20/17 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	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

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
Worcester, MA 01680
www.westonandsampson.com
Office: 508-762-1676 x3004
Direct: 978-587-4006

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D:\HPCHEM\1\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):

17G0867-01 thru 17G0867-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0867−01	6
17G0867−02	8
17G0867−03	10
17G0867−04	12
17G0867−05	14
17G0867−06	16
17G0867−07	18
17G0867−08	20
17G0867−09	22
17G0867−10	24
17G0867−11	26
17G0867−12	28
17G0867−13	30
17G0867−14	32
17G0867−15	34
17G0867−16	36
17G0867−17	38
17G0867−18	40
17G0867−19	42
17G0867−20	44
Sample Preparation Information	46
QC Data	48

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 48

B182710 48

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 50

B182736 50

Petroleum Hydrocarbons Analyses 52

B182711 52

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 53

B182677 53

Dual Column RPD Report 54

Flag/Qualifier Summary 67

Certifications 68

CÜain of Custody/Sample Receipt 70

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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	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.8		% Wt	1		SM 2540G	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-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

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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-48-3 Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

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	53.8		% 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-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

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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-88-1 Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

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	98.4		% 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-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/APHA/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

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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-88-2B 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

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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-88-2B Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

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	98.2		% 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-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

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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-88-3 Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.2		% 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-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

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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-88-4 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

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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-98-1 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

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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-98-1 Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

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	98.3		% 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-98-2a 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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39 Spruce Street * 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

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	7/27/17	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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	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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39 Spruce Street * 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-98-3 Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

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	82.4		% 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.6		% Wt	1		SM 2540G	7/27/17	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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39 Spruce Street * 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-97-1 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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39 Spruce Street * 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-97-2A Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

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	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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	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/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	7/27/17	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-97-4 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

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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-97-4 Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

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	83.5		% 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-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

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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-89-1 Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

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	97.7		% 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-89-2 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

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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-89-2 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

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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
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
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
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

SW-846 8082A

WS-AOC12W-SO-88-1

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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-3

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-88-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-1

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-2A

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-87-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-1

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-2

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Cox Hist / PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-48-2	7/20/17	10:32		X	S	U	X								
2	WS-AOC12W-SO-48-3		10:34					X								
3	WS-AOC12W-SO-88-1		13:25					X								
4	WS-AOC12W-SO-88-2A		13:26					X								
5	WS-AOC12W-SO-88-2B		13:27								X					
6	WS-AOC12W-SO-88-3		13:28					X								
7	WS-AOC12W-SO-88-4		13:29					X								
8	WS-AOC12W-SO-87-1		13:30					X								
9	WS-AOC12W-SO-87-2A		13:31					X								
10	WS-AOC12W-SO-87-2B		13:32							X						

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
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:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

1760867

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con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-87-3	7/20/17	13:33		X	S	U	X								
12	WS-AOC12W-SO-87-4		13:34					X								
13	WS-AOC12W-SO-97-1		13:57					X								
14	WS-AOC12W-SO-97-2A		13:59					X								
15	WS-AOC12W-SO-97-2B		14:01							X						
16	WS-AOC12W-SO-97-3		14:03					X								
17	WS-AOC12W-SO-97-4		14:05					X								
18	WS-AOC12W-SO-89-1		13:50					X								
19	WS-AOC12W-SO-89-2		13:51					X								
20	WS-AOC12W-SO-89-3		13:52					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/20/17 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	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

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
Worcester, MA 01680
www.westonandsampson.com
Office: 508-762-1676 x3004
Direct: 978-587-4006

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D:\HPCHEM\1\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):

17G0867-01 thru 17G0867-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	5
Sample Results	6
17G0868-01	6
17G0868-02	8
17G0868-03	10
17G0868-04	12
17G0868-05	14
17G0868-06	16
17G0868-07	18
17G0868-08	20
17G0868-09	22
17G0868-10	24
17G0868-11	26
17G0868-12	28
17G0868-13	30
17G0868-14	32
17G0868-15	34
17G0868-16	36
17G0868-17	38
17G0868-18	40
17G0868-19	42
17G0868-20	44
Sample Preparation Information	46
QC Data	47

Table of Contents (continued)

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 47

B182746 47

Petroleum Hydrocarbons Analyses 48

B182711 48

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 49

B182677 49

Dual Column RPD Report 50

Flag/Qualifier Summary 61

Certifications 62

Chain of Custody/Sample Receipt 63

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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	

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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-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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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-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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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-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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.4		% Wt	1		SM 2540G	7/27/17	7/28/17 10:26	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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-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

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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-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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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-92-2 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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39 Spruce Street * 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-92-2 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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

Polychlorinated 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

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39 Spruce Street * 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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-89-4A

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

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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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-91-1

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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-91-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-96-2

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-92-1

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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-93-1

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

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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.

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1740868

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con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

* ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCB	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-89-4A	7/20/17	13:53		X	S	U	X								
2	WS-AOC12W-SO-89-4B		13:54								X					
3	WS-AOC12W-SO-90-1		14:07					X								
4	WS-AOC12W-SO-90-2		14:08					X								
5	WS-AOC12W-SO-90-3		14:09					X								
6	WS-AOC12W-SO-90-4A		14:10					X								
7	WS-AOC12W-SO-90-4B		14:11								X					
8	WS-AOC12W-SO-91-1		14:16					X								
9	WS-AOC12W-SO-91-2		14:17					X								
10	WS-AOC12W-SO-91-3		14:18					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID #

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Email: info@contestlabs.com
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East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-91-4	7/20/17	14:18		X	S	U	X								
12	WS-AOC12W-SO-96-1		14:26					X								
13	WS-AOC12W-SO-96-2		14:28					X								
14	WS-AOC12W-SO-96-3		14:30					X								
15	WS-AOC12W-SO-92-1		14:39					X								
16	WS-AOC12W-SO-92-2		14:40					X								
17	WS-AOC12W-SO-92-3		14:41					X								
18	WS-AOC12W-SO-92-4		14:42					X								
19	WS-AOC12W-SO-93-1		14:44					X								
20	WS-AOC12W-SO-93-2		14:45					X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

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O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
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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
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: RES DEC
6:30
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By 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	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\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:\HPCHEM\1\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):

17G0868-01 thru 17G0868-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/03/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

17G0869-01 6

17G0869-02 8

17G0869-03 10

17G0869-04 12

17G0869-05 14

17G0869-06 16

17G0869-07 18

17G0869-08 20

17G0869-09 22

17G0869-10 24

17G0869-11 26

17G0869-12 28

17G0869-13 30

17G0869-14 32

17G0869-15 36

17G0869-16 40

Sample Preparation Information 44

QC Data 46

Semivolatile Organic Compounds by GC/MS 46

B182651 46

B182710 47

Polychlorinated Biphenyls By GC/ECD 49

Table of Contents (continued)

B182466 49

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 50

B182745 50

Petroleum Hydrocarbons Analyses 52

B182547 52

Metals Analyses (Total) 53

B182382 53

B182475 53

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 55

B182782 55

Dual Column RPD Report 56

Flag/Qualifier Summary 63

Certifications 64

Chain of Custody/Sample Receipt 67

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/8/2017

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	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6020, only 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

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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-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

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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-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

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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-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

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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-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

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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-95-1 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

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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-95-1 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

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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-95-2 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

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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-95-2 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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39 Spruce Street * 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-95-3 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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39 Spruce Street * 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-95-4 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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39 Spruce Street * 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-95-4 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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

Conventional 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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39 Spruce Street * 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

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

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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

Conventional 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

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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-94-3 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

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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-94-3 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

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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-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

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39 Spruce Street * 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.7		% Wt	1		SM 2540G	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/APHA/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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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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39 Spruce Street * 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-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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39 Spruce Street * 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

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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39 Spruce Street * 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

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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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

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

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39 Spruce Street * 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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39 Spruce Street * 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

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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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
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			

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QUALITY CONTROL

Polychlorinated Biphenyls By GC/ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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
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
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
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			

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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 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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-93-3

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

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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

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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

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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

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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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-DUP-15

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.

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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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Water	
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	SPLP PCB	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12W-SO-93-3	7/20/17	14:46		X	S	U	X								
2	WS-AOC12W-SO-93-4		14:47					X								
3	WS-AOC12W-SO-95-1		14:48					X								
4	WS-AOC12W-SO-95-2		14:49					X								
5	WS-AOC12W-SO-95-3		14:50					X								
6	WS-AOC12W-SO-95-4		14:51					X								
7	WS-AOC12W-SO-94-1							X								
8	WS-AOC12W-SO-94-2A (MS-MSD)							X								
9	WS-AOC12W-SO-94-2B									X						
10	WS-AOC12W-SO-94-3							X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summ
T = To
O

Comments:
WS-AOC12W-SO-94-2A (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1535
Received by: (signature)	Date/Time: 7/20/17 1535
Relinquished by: (signature)	Date/Time: 7-20-17 6:30
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

1760869

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	SPLP PCBs	PAHs	ETPH	SPLP ETPH	Arsenic	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12W-SO-DUP-13	7/20/17			X	S	U	X								
12	WS-AOC12W-SO-DUP-14	↓			↓	↓	↓	X								
13	WS-AOC12W-SO-DUP-15	↓			↓	↓	↓	X								

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/20/17 1335
Received by: (signature)	Date/Time: 7/20/17 1555
Relinquished by: (signature)	Date/Time: 7-20-17
Received by: (signature)	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
6:30
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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Table of Contents

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Fax: 413-525-6405
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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Arsenic	ETPH	PAHs	PCB												
# of Containers								1	2	2	2												
[2] Preservation Code								IN	I	I	I												
[3] Container Code								P	A	A	A												
14	EB-7	7/20/17	12:20		X	O	U	X	X	X	X												
15	EB8	7/20/17	12:22		X	O	U	X	X	X	X												

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) 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)

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
Received by: (signature) 4.5	Date/Time: 7/20/17 1830
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
6:30
Other

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

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TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
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CHAIN OF CUSTODY RECORD

Doc # 381 Rev 1_03242017

39 Spruce Street
East Longmeadow, MA 01028

Page 12 of 12

Company Name:	Weston & Sampson
Address:	273 Dividend Rd Rocky Hill, CT
Phone:	8W-SAMPSON
Project Name:	English Station
Project Location:	510 Grand Ave New Haven
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	TPS

Requested Turnaround Time
7-Day ☒ 10-Day ☐
Due Date:

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: BeelerM@wseinc.com
Fax To #:

	PCBs	PAHs	ETPH	RSR-15								
# of Containers	2	2	2	1								
² Preservation Code	I	I	I	N								
³ Container Code	A	A	A	P								

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	¹Matrix Code	Conc Code	PCBs	PAHs	ETPH	RSR-15
16	CT-E	7/20/17	1330		X	O	U	X	X	X	X

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

¹ Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define) Water

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)

	Date/Time:
Relinquished by: (signature) [signature]	7/20/17 1535
Received by: (signature) [signature]	7/20/17 1535
Relinquished by: (signature) [signature] 7-20-17	6:30
Received by: (signature) [signature] 45 7/20/17	1830
Relinquished by: (signature)	
Received by: (signature)	

Detection Limit Requirements
MA:
CT: CT RSR
Other:

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☒ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

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Project Entity
☐ Government ☐ Municipality ☐ MWRA ☐ WRTA
☐ Federal ☐ 21 J ☐ School
☐ City ☐ Brownfield ☐ MBTA

Other
☐ Chromatogram
☐ *AIHA-LAP, LLC*

PCB ONLY
☐ Soxhlet
☐ Non Soxhlet

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By 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 ____
By Gun # 2 Actual Temp - 4.5, 3.4, 3.2

Were samples within Temperature? 2-6°C T By Blank # ____ Actual Temp - ____

Was Custody Seal Intact? N/A Were Samples Tampered with? F

Was COC Relinquished ? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T

Did COC include all pertinent Information? Client T Analysis T Sampler Name T
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? ~~N/A~~ T (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 Amb/Clear	15
Meoh-		250 mL Amb.		250 mL Plastic	3	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):

17G0869-01 thru 17G0869-16

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G0911−01	7
17G0911−02	9
17G0911−03	11
17G0911−04	13
17G0911−05	15
17G0911−06	17
17G0911−07	21
17G0911−08	23
17G0911−09	25
17G0911−10	27
17G0911−11	29
17G0911−12	31
17G0911−13	33
17G0911−14	37
17G0911−15	41
17G0911−16	45
17G0911−17	49
17G0911−18	53
17G0911−19	57
17G0911−20	61
Sample Preparation Information	65
QC Data	67

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 67

B182789 67

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 70

B182818 70

Petroleum Hydrocarbons Analyses 72

B182788 72

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 73

B182831 73

Dual Column RPD Report 74

Flag/Qualifier Summary 81

Certifications 82

CÜain of Custody/Sample Receipt 84

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/8/2017

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	

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-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	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl
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. Kopyscinski
Laboratory Director

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39 Spruce Street * 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/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	7/28/17	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-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

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39 Spruce Street * 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/APHA/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

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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-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

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39 Spruce Street * 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/APHA/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

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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-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

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39 Spruce Street * 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/APHA/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

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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-3-1 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

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39 Spruce Street * 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/APHA/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

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39 Spruce Street * 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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39 Spruce Street * 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

Polychlorinated 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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39 Spruce Street * 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

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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39 Spruce Street * 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

Conventional 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	7/28/17	7/29/17 6:14	MRL

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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/APHA/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

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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

Polychlorinated 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/APHA/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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39 Spruce Street * 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-2-1 Sampled: 7/21/2017 09:32

Sample ID: 17G0911-09

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	97.1		% 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-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/APHA/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

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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

Polychlorinated 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/APHA/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/APHA/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/APHA/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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	7/28/17	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

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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

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/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 6:14	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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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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39 Spruce Street * 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-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/APHA/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/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	7/28/17	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-4-1 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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39 Spruce Street * 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-4-2 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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39 Spruce Street * 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-4-2 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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39 Spruce Street * 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-4-2 Sampled: 7/21/2017 12:10

Sample ID: 17G0911-20

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	79.6		% Wt	1		SM 2540G	7/28/17	7/29/17 6:14	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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			
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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC5-SO-3-1

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

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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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

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

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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

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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

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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

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1760911

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC5-SO-6-1	7/21/17	9:00		X	S	U	X					
2	WS-AOC5-SO-9-1		9:03					X					
3	WS-AOC5-SO-8-1		9:19					X					
4	WS-AOC5-SO-8-2		9:21					X					
5	WS-AOC5-SO-3-1 (MS-MSD)		9:22					X					
6	WS-AOC5-SO-3-2		9:23					X	X	X			
7	WS-AOC5-SO-5-1		9:25					X					
8	WS-AOC5-SO-4-1		9:37					X					
9	WS-AOC5-SO-2-1		9:32					X					
10	WS-AOC5-SO-7-1		9:38					X					

Comments:
WS-AOC5-SO-3-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 7/21/17 1405
Received by: (signature)	Date/Time: 7/21/17 1405
Relinquished by: (signature)	Date/Time: 7-21-17 7:00
Received by: (signature)	Date/Time: 7/21/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC5-SO-1-1	7/21/17	10:04		X	S	U	X					
12	WS-AOC5-SO-1-2		10:06					X					
13	WS-AOC12E-SO-1-1		11:08					X	X	X			
14	WS-AOC12E-SO-1-2		11:10					X	X	X			
15	WS-AOC12E-SO2-1		11:30					X	X	X			
16	WS-AOC12E-SO-2-2		11:32					X	X	X			
17	WS-AOC12E-SO-3-1		11:54					X	X	X			
18	WS-AOC12E-SO-3-2		11:56					X	X	X			
19	WS-AOC12E-SO-4-1 (MS-MSD)		12:09					X	X	X			
20	WS-AOC12E-SO-4-2		12:10					X	X	X			

Comments:
WS-AOC12E-SO-4-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

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A = Air
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O = Other (please define)

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I = Iced
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S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 7/21/17 1405
Received by: (signature)	Date/Time: 7/21/17 1405
Relinquished by: (signature)	Date/Time: 7-21-17 7:00
Received by: (signature)	Date/Time: 7/21/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/21/17 Time 1900

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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~~ T (JW)
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	34
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
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\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:\HPCHEM\1\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):

17G0911-01 thru 17G0911-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 6

Sample Results 7

17G0912−01 7

17G0912−02 9

17G0912−03 11

17G0912−04 13

17G0912−05 15

17G0912−06 17

17G0912−07 19

17G0912−08 21

17G0912−09 24

17G0912−10 26

17G0912−11 28

17G0912−12 30

17G0912−13 32

17G0912−14 34

17G0912−15 36

17G0912−16 39

17G0912−17 41

17G0912−18 43

17G0912−19 45

17G0912−20 47

Sample Preparation Information 49

QC Data 51

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 51

B182765 51

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 53

B182849 53

Petroleum Hydrocarbons Analyses 54

B182788 54

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 55

B182835 55

Dual Column RPD Report 56

Flag/Qualifier Summary 58

Certifications 59

CÜain of Custody/Sample Receipt 61

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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	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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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-43-1 Sampled: 7/21/2017 11:20

Sample ID: 17G0912-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% 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-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

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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-43-2 Sampled: 7/21/2017 11:21

Sample ID: 17G0912-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.3		% 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: 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

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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-43-3 Sampled: 7/21/2017 11:22

Sample ID: 17G0912-03

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	69.4		% 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-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

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39 Spruce Street * 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/APHA/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

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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

Polychlorinated 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/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 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-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

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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-46-3 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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/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	7/28/17	7/29/17 6:29	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	7/28/17	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/APHA/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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.1		% Wt	1		SM 2540G	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-53-2 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

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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-53-2 Sampled: 7/21/2017 12:44

Sample ID: 17G0912-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% 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-53-3 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

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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-53-3 Sampled: 7/21/2017 12:45

Sample ID: 17G0912-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.5		% Wt	1		SM 2540G	7/28/17	7/29/17 6:29	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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

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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

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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39 Spruce Street * 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

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.9		% Wt	1		SM 2540G	7/28/17	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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39 Spruce Street * 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-62-2 Sampled: 7/21/2017 12:56

Sample ID: 17G0912-16

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	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/APHA/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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39 Spruce Street * 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-61-1 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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39 Spruce Street * 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-61-2 Sampled: 7/21/2017 13:03

Sample ID: 17G0912-19

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	87.8		% 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-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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39 Spruce Street * 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

Conventional 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	7/28/17	7/29/17 6:29	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOCIZE-SO-43-1	7/21/17	11:20		X	S	U	X					
2	WS-AOCIZE-SO-43-2	↓	11:21		↓	↓	↓	X					
3	WS-AOCIZE-SO-43-3		11:22					X					
4	WS-AOCIZE-SO-46-1		11:45					X					
5	WS-AOCIZE-SO-46-2		11:46					X					
6	WS-AOCIZE-SO-46-3		11:47					X					
7	WS-AOCIZE-SO-50-1A		11:55					X					
8	WS-AOCIZE-SO-50-1B		11:56						X	X			
9	WS-AOCIZE-SO-50-2		11:57					X					
10	WS-AOCIZE-SO-50-3	↓	11:58		↓	↓	↓	X					

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Relinquished by: (signature)	Date/Time: 7/21/17 1405
Received by: (signature)	Date/Time: 7/21/17 1405
Relinquished by: (signature)	Date/Time: 7-21-17 7:00
Received by: (signature)	Date/Time: 7/21/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

1760912

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOCIZE-SO-53-1	7/21/17	12:43		X	S	U	X					
12	WS-AOCIZE-SO-53-2		12:44					X					
13	WS-AOCIZE-SO-53-3		12:45					X					
14	WS-AOCIZE-SO-62-1A		12:54					X					
15	WS-AOCIZE-SO-62-1B		12:55						X	X			
16	WS-AOCIZE-SO-62-2		12:56					X					
17	WS-AOCIZE-SO-62-3		12:57					X					
18	WS-AOCIZE-SO-61-1		13:02					X					
19	WS-AOCIZE-SO-61-2		13:03					X					
20	WS-AOCIZE-SO-61-3		13:04					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/21/17 1405
Received by: (signature)	Date/Time: 7/21/17 1405
Relinquished by: (signature)	Date/Time: 7-21-17 7:00
Received by: (signature)	Date/Time: 7/21/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/21/17 Time 1900

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\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):

17G0912-01 thru 17G0912-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

17G0913-01 6

17G0913-02 8

17G0913-03 10

17G0913-04 12

17G0913-05 14

17G0913-06 16

17G0913-07 18

17G0913-08 20

17G0913-09 24

17G0913-10 26

Sample Preparation Information 28

QC Data 29

Semivolatile Organic Compounds by GC/MS 29

B182789 29

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 31

B182856 31

Petroleum Hydrocarbons Analyses 32

B182860 32

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 33

B182835 33

Dual Column RPD Report 34

Flag/Qualifier Summary 36

Table of Contents (continued)

Certifications 37

Chain of Custody/Sample Receipt 39

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	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

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

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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39 Spruce Street * 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

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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

Polychlorinated 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

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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

Conventional 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

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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-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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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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
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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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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

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1760913

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-58-1	7/21/17	13:08		X	S	U	X					
2	WS-AOC12E-SO-58-2		13:09					X					
3	WS-AOC12E-SO-58-3		13:10					X					
4	WS-AOC12E-SO-54-1		13:17					X					
5	WS-AOC12E-SO-54-2		13:18					X					
6	WS-AOC12E-SO-54-3		13:19					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/21/17 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:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Fax: 413-525-6405
Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
7	WS-AOC5-SO-DUP-16	7/21/17			X	S	U	X					
8	WS-AOC12E-SO-DUP-17	↓			↓	↓	↓	X	X	X			
9	WS-AOC12E-SO-DUP-18							X					
10	WS-AOC12E-SO-DUP-19							X					
		↓			↓	↓	↓						

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/21/17 1405
Received by: (signature)	Date/Time: 7/21/17 1405
Relinquished by: (signature)	Date/Time: 7-21-17 2:00
Received by: (signature)	Date/Time: 7/21/17 1900
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
Other: RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston & Sampson

Received By JM Date 7/21/17 Time 1900

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____

Were samples within Temperature? 2-6°C T By Gun # 7 Actual Temp - 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 ID's T Sampler Name T
Project T Collection Dates/Times T
Are Sample labels filled out and legible? T
Are there Lab to Filters? 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	VI
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):

17G0913-01 thru 17G0913-10

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Tod Kopyscinski **Position:** **Laboratory Director**

Printed Name: **Tod E. Kopyscinski** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 7, 2017

Malcolm Beeler
Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	10
17G0987-01	10
17G0987-02	12
17G0987-03	14
17G0987-04	16
17G0987-05	18
17G0987-06	21
17G0987-07	23
17G0987-08	25
17G0987-09	27
17G0987-10	29
17G0987-11	33
17G0987-12	35
17G0987-13	37
17G0987-14	39
17G0987-15	41
17G0987-16	43
17G0987-17	45
17G0987-18	47
17G0987-19	49
17G0987-20	51
Sample Preparation Information	53
QC Data	55

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 55

B182789 55

B182852 57

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 59

B182888 59

B183336 60

Petroleum Hydrocarbons Analyses 62

B182860 62

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 63

B182839 63

Dual Column RPD Report 64

Flag/Qualifier Summary 73

Certifications 74

Chain of Custody/Sample Receipt 76

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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	

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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	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

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CTDEP ETPH

Qualifications:

MS-07A

Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.

Analyte & Samples(s) Qualified:

CT ETPH

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

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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

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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-d14
17G0987-10RE2[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

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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-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

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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-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

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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-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

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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-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

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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-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

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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-56-3 Sampled: 7/24/2017 10:22

Sample ID: 17G0987-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.0		% 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-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

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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-57-1A Sampled: 7/24/2017 10:25

Sample ID: 17G0987-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.2		% 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

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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

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

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39 Spruce Street * 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

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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

Polychlorinated 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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39 Spruce Street * 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

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.7		% Wt	1		SM 2540G	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-57-3 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

39 Spruce Street * 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

Conventional 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

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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

Conventional 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	7/29/17	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/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 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/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 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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39 Spruce Street * 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-31-3 Sampled: 7/24/2017 10:16

Sample ID: 17G0987-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% 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/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 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/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	7/29/17	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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39 Spruce Street * 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-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/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	7/29/17	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/APHA/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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39 Spruce Street * 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-12-1 Sampled: 7/24/2017 12:03

Sample ID: 17G0987-19

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	95.6		% 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-12-2 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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39 Spruce Street * 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

Conventional 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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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
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			
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
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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12E-SO-31-1

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12E-SO-31-2A

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12E-SO-31-4

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

SW-846 8082A

LCS Dup

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

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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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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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

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
E	Reported result is estimated. Value reported over verified calibration range.
MS-07A	Matrix spike and spike duplicate recovery is outside of control limits. Analysis is in control based on laboratory fortified blank recovery. Possiblity of matrix effects that lead to low bias or non-homogeneous sample aliquot cannot be eliminated.
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.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17G 0987

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Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1] Matrix Code	Conc Code	(Soxhlet) PCB	PAH	ETPH											# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-56-1	7/24/17	1020		X	S	U	X															
2	WS-AOC12E-SO-56-2		1021					X															
3	WS-AOC12E-SO-56-3		1022					X															
4	WS-AOC12E-SO-57-1A		1025					X															
5	WS-AOC12E-SO-57-1B		1026						X	X													
6	WS-AOC12E-SO-57-2		1027					X															
7	WS-AOC12E-SO-57-3		1028					X															
8	WS-AOC12E-SO-31-1		1010					X															
9	WS-AOC12E-SO-31-2A (MS/MSD)		1012					X															
10	WS-AOC12E-SO-31-2B (MS/MSD)		1014						X	X													

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)
_____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)
_____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)
_____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/24/17 1525
Received by: (signature)	Date/Time: 7/24/17 1525
Relinquished by: (signature)	Date/Time: 7/24/17 1610
Received by: (signature) 3.5	Date/Time: 7/24/17 1815
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 2 of ____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCBs (soxhlet)	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-31-3	7/24/17	1016		X	S	U	X			
12	WS-AOC12E-SO-31-4		1018					X			
13	WS-AOC12E-SO-27-1		1028					X			
14	WS-AOC12E-SO-27-2		1030					X			
15	WS-AOC12E-SO-27-3		1032					X			
16	WS-AOC12E-SO-63-1		1200					X			
17	WS-AOC12E-SO-63-2		1201					X			
18	WS-AOC12E-SO-63-3		1202					X			
19	WS-AOC12E-SO-12-1		12:03					X			
20	WS-AOC12E-SO-12-2		12:04					X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time:
7/24/17	1575
Received by: (signature)	Date/Time:
	7/24/17 1525
Relinquished by: (signature)	Date/Time:
	7/24/17 6.15
Received by: (signature)	Date/Time:
	7/24/17 1815
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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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	24
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:\HPCHEM\1\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):

17G0987-01 thru 17G0987-20

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: **Position:** **Director of Operations**

Printed Name: **Daren J. Damboragian** **Date:** **08/07/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Table of Contents

Sample Summary 3

Case Narrative 4

Sample Results 5

17G0989−01 5

17G0989−02 7

17G0989−03 9

17G0989−04 11

17G0989−05 13

17G0989−06 15

17G0989−07 17

17G0989−08 19

Sample Preparation Information 21

QC Data 22

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 22

B182409 22

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 23

B182839 23

Dual Column RPD Report 24

Flag/Qualifier Summary 27

Certifications 28

CÜain of Custody/Sample Receipt 29

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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	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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

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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-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

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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

Polychlorinated 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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39 Spruce Street * 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

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% 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: 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

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39 Spruce Street * 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

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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-59-3 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

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39 Spruce Street * 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% Wt	1		SM 2540G	7/29/17	7/31/17 8:37	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 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/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

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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-64-2 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

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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-64-2 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

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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

Polychlorinated 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	61.9		% Wt	1		SM 2540G	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

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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	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12E-SO-12-3

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

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

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

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.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page _____ of _____

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	PCB (Soxhlet)	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-A0C12E-SO+12-3	7/24/17	12:05		X	S	U	X					
2	WS-A0C12E-SO-59-1		12:06					X					
3	WS-A0C12E-SO-59-2		12:07					X					
4	WS-A0C12E-SO-59-3		12:08					X					
5	WS-A0C12E-SO-64-1		12:09					X					
6	WS-A0C12E-SO-64-2		12:10					X					
7	WS-A0C12E-SO-64-3		12:11					X					
8	WS-A0C12E-SO-DUP-20							X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time:
[signature] 7/24/17	1505
Received by: (signature) [signature]	Date/Time: 7/24/17 1525
Relinquished by: (signature) [signature]	Date/Time: 7/24/17 6:15
Received by: (signature) [signature]	Date/Time: 7/24/17 1815
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

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
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ___ Base ___

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	8
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
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):

17G0989-01 thru 17G0989-08

Sample Date(s):

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?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☑ Yes ☐ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **07/31/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G1073-01	7
17G1073-02	9
17G1073-03	12
17G1073-04	14
17G1073-05	16
17G1073-06	18
17G1073-07	20
17G1073-08	22
17G1073-09	24
17G1073-10	26
17G1073-11	28
17G1073-12	30
17G1073-13	32
17G1073-14	34
17G1073-15	36
17G1073-16	38
17G1073-17	41
17G1073-18	43
17G1073-19	45
17G1073-20	47
Sample Preparation Information	49
QC Data	51

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 51

B182956 51

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 53

B182926 53

Petroleum Hydrocarbons Analyses 55

B182957 55

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 56

B182840 56

Flag/Qualifier Summary 57

Certifications 58

Chain of Custody/Sample Receipt 60

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/9/2017

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	

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-23-3	17G1073-20	Soil		SM 2540G SW-846 8082A	

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

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.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 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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39 Spruce Street * 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

Conventional 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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39 Spruce Street * 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-29-1B 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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39 Spruce Street * 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-29-1B 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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 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

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 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/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.6		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 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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39 Spruce Street * 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-29-3 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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39 Spruce Street * 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-34-1 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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39 Spruce Street * 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-34-1 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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

Conventional 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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39 Spruce Street * 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-28-1 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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39 Spruce Street * 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-28-1 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

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39 Spruce Street * 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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39 Spruce Street * 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

Conventional 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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39 Spruce Street * 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-28-3 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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39 Spruce Street * 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-28-3 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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-55-1 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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39 Spruce Street * 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-55-1 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

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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-55-2A 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

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39 Spruce Street * 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

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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-55-2B 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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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39 Spruce Street * 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

Polychlorinated 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * 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

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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.

con-test® ANALYTICAL LABORATORY

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1761073

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Page 1 of 10

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOCIZE-SO-29-1A	7/25/17		10:00	X	S	U	X					
2	WS-AOCIZE-SO-29-1B			10:02					X	X			
3	WS-AOCIZE-SO-29-2			10:04				X					
4	WS-AOCIZE-SO-29-3			10:06				X					
5	WS-AOCIZE-SO-34-1			10:05				X					
6	WS-AOCIZE-SO-34-2			10:06				X					
7	WS-AOCIZE-SO-34-3			10:07				X					
8	WS-AOCIZE-SO-28-1			10:10				X					
9	WS-AOCIZE-SO-28-2			10:11				X					
10	WS-AOCIZE-SO-28-3			10:12				X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 SP
Received by: (signature) 2.2	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

17G1073

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	Soil PCB	PAH	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-60-1	7/25/17	10:30		X	S	U	X					
12	WS-AOC12E-SO-60-2		10:32					X					
13	WS-AOC12E-SO-60-3		10:34					X					
14	WS-AOC12E-SO-55-1		10:30					X					
15	WS-AOC12E-SO-55-2A		10:31					X					
16	WS-AOC12E-SO-55-2B		10:32						X	X			
17	WS-AOC12E-SO-55-3		10:33					X					
18	WS-AOC12E-SO-23-1		10:24					X					
19	WS-AOC12E-SO-23-2		10:26					X					
20	WS-AOC12E-SO-23-3		10:28					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:
WS-AOC12E-SO-60-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.
WS-AOC12E-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)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 SM
Received by: (signature) 2.2	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information

○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson

Received By JM Date 7/25/17 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 (JW)
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	24
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080617\A0806006.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806006.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	396420	435896	-9
c - 10	1.64	401324	435896	-8
c - 12	2.37	415700	435896	-5
c - 14	3.04	427710	435896	-2
c - 16	3.65	441238	435896	1
c - 18	4.29	439544	435896	1
o-Terphenyl	4.57	487396	435896	
c - 20	4.89	449397	435896	3
c - 22	5.40	460053	435896	6
c - 24	5.84	432109	435896	-1
c - 26	6.23	457570	435896	5
c - 28	6.59	452358	435896	4
c - 30	6.93	450754	435896	3
c - 32	7.24	439754	435896	1
c - 34	7.54	441393	435896	1
c - 36	7.89	433119	435896	-1

* One compound allowed %D <= 50%

Samples

17G1252-02
17G1073-16@5X
17G1171-20@50X

D:\HPCHEM\1\DATA\A080617\A0806060.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/6/17
Data File Name	A0806060.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.29	395677	432339	-8
c - 10	1.64	400720	432339	-7
c - 12	2.37	413483	432339	-4
c - 14	3.05	425031	432339	-2
c - 16	3.66	438429	432339	1
c - 18	4.29	436657	432339	1
o-Terphenyl	4.57	485024	432339	
c - 20	4.89	444922	432339	3
c - 22	5.40	454087	432339	5
c - 24	5.84	425652	432339	-2
c - 26	6.24	450486	432339	4
c - 28	6.60	446427	432339	3
c - 30	6.93	446559	432339	3
c - 32	7.24	437863	432339	1
c - 34	7.54	438057	432339	1
c - 36	7.89	431036	432339	0

* One compound allowed %D </= 50%

Samples

17G1252-07@10X
17G1252-19@10X
17G1258-08@100X
17G1252-09
17G1258-04
17G1252-14

D:\HPCHEM\1\DATA\A080717.SEC\A0807007.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/7/17
Data File Name	A0807007.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.28	567269	616507	-8
c - 10	1.63	582026	616507	-6
c - 12	2.35	602280	616507	-2
c - 14	3.01	616087	616507	0
c - 16	3.62	632696	616507	3
c - 18	4.23	627640	616507	2
o-Terphenyl	4.52	702616	616507	
c - 20	4.84	638720	616507	4
c - 22	5.34	651603	616507	6
c - 24	5.78	609664	616507	-1
c - 26	6.17	643711	616507	4
c - 28	6.53	633637	616507	3
c - 30	6.86	630017	616507	2
c - 32	7.17	609518	616507	-1
c - 34	7.46	605031	616507	-2
c - 36	7.78	597714	616507	-3

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

REASONABLE CONFIDENCE PROTOCOL
LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

Laboratory Name: Con-Test Analytical Laboratory

Client: Weston & Sampson

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 17G1073

Laboratory Sample ID(s):

17G1073-01 thru 17G1073-20

Sample Date(s):

07/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/09/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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: 17G1074

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G1074-01	7
17G1074-02	9
17G1074-03	11
17G1074-04	13
17G1074-05	15
17G1074-06	17
17G1074-07	20
17G1074-08	22
17G1074-09	24
17G1074-10	27
17G1074-11	29
17G1074-12	31
17G1074-13	33
17G1074-14	35
17G1074-15	37
17G1074-16	39
17G1074-17	41
17G1074-18	43
17G1074-19	45
17G1074-20	48
Sample Preparation Information	50
QC Data	52

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 52

B183204 52

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 54

B182927 54

B183043 55

Petroleum Hydrocarbons Analyses 57

B183209 57

Dual Column RPD Report 58

Flag/Qualifier Summary 64

Certifications 65

Chain of Custody/Sample Receipt 67

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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: 17G1074

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-44-1	17G1074-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-44-2	17G1074-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-44-3	17G1074-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-47-1	17G1074-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-47-2A	17G1074-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-47-2B	17G1074-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-47-3	17G1074-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-19-1A	17G1074-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-19-1B	17G1074-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-19-2	17G1074-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-19-3	17G1074-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-14-1	17G1074-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-14-2	17G1074-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-14-3	17G1074-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-20-1	17G1074-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-20-2	17G1074-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-20-3	17G1074-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-40-1A	17G1074-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-40-1B	17G1074-19	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	

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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: 17G1074

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-40-2	17G1074-20	Soil		SM 2540G SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, pnly PAHs were requested and reported.

SW-846 8082A

Qualifications:

O-32

A dilution was performed as part of the standard analytical procedure.

Analyte & Samples(s) Qualified:

17G1074-11RE1[WS-AOC12E-SO-19-3]

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1074-09[WS-AOC12E-SO-19-1B]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-1 Sampled: 7/25/2017 11:04

Sample ID: 17G1074-01

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	8/8/17 19:40	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.9	30-150		8/8/17 19:40
Decachlorobiphenyl [2]	77.0	30-150		8/8/17 19:40
Tetrachloro-m-xylene [1]	89.0	30-150		8/8/17 19:40
Tetrachloro-m-xylene [2]	87.0	30-150		8/8/17 19:40

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-1 Sampled: 7/25/2017 11:04

Sample ID: 17G1074-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.4		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-2 Sampled: 7/25/2017 11:02

Sample ID: 17G1074-02

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	7/31/17	8/8/17 19:57	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 19:57	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/8/17 19:57
Decachlorobiphenyl [2]	89.0	30-150		8/8/17 19:57
Tetrachloro-m-xylene [1]	92.3	30-150		8/8/17 19:57
Tetrachloro-m-xylene [2]	90.3	30-150		8/8/17 19:57

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-2 Sampled: 7/25/2017 11:02

Sample ID: 17G1074-02

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	84.0		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-3 Sampled: 7/25/2017 11:00

Sample ID: 17G1074-03

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	7/31/17	8/8/17 20:15	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/8/17 20:15
Decachlorobiphenyl [2]	95.4	30-150		8/8/17 20:15
Tetrachloro-m-xylene [1]	93.2	30-150		8/8/17 20:15
Tetrachloro-m-xylene [2]	91.8	30-150		8/8/17 20:15

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-44-3 Sampled: 7/25/2017 11:00

Sample ID: 17G1074-03

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	87.3		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-1 Sampled: 7/25/2017 10:55

Sample ID: 17G1074-04

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 20:33	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:33	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/8/17 20:33
Decachlorobiphenyl [2]	89.5	30-150		8/8/17 20:33
Tetrachloro-m-xylene [1]	91.4	30-150		8/8/17 20:33
Tetrachloro-m-xylene [2]	90.2	30-150		8/8/17 20:33

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-1 Sampled: 7/25/2017 10:55

Sample ID: 17G1074-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.2		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-2A Sampled: 7/25/2017 10:56

Sample ID: 17G1074-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 20:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/8/17 20:50
Decachlorobiphenyl [2]	86.8	30-150		8/8/17 20:50
Tetrachloro-m-xylene [1]	90.5	30-150		8/8/17 20:50
Tetrachloro-m-xylene [2]	88.7	30-150		8/8/17 20:50

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-2A Sampled: 7/25/2017 10:56

Sample ID: 17G1074-05

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	86.8		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-2B Sampled: 7/25/2017 10:57

Sample ID: 17G1074-06

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	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Acenaphthylene	ND	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Anthracene	0.44	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Benzo(a)anthracene	1.2	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Benzo(a)pyrene	0.77	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Benzo(b)fluoranthene	1.2	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Benzo(g,h,i)perylene	0.54	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Benzo(k)fluoranthene	0.40	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Chrysene	1.5	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Dibenz(a,h)anthracene	ND	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Fluoranthene	3.5	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Fluorene	0.42	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Indeno(1,2,3-cd)pyrene	0.49	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
2-Methylnaphthalene	0.48	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Naphthalene	0.96	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Phenanthrene	2.9	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL
Pyrene	2.7	0.23	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:02	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	49.7	30-130		8/4/17 15:02
2-Fluorobiphenyl	48.5	30-130		8/4/17 15:02
p-Terphenyl-d14	58.8	30-130		8/4/17 15:02

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-2B Sampled: 7/25/2017 10:57

Sample ID: 17G1074-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	930	130	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/5/17 1:47	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	97.3	50-150		8/5/17 1:47

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-2B Sampled: 7/25/2017 10:57

Sample ID: 17G1074-06

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	74.7		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-3 Sampled: 7/25/2017 10:58

Sample ID: 17G1074-07

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 21:08	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:08	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/8/17 21:08
Decachlorobiphenyl [2]	88.9	30-150		8/8/17 21:08
Tetrachloro-m-xylene [1]	88.4	30-150		8/8/17 21:08
Tetrachloro-m-xylene [2]	85.7	30-150		8/8/17 21:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-47-3 Sampled: 7/25/2017 10:58

Sample ID: 17G1074-07

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	81.5		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-1A Sampled: 7/25/2017 11:06

Sample ID: 17G1074-08

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	8/8/17 21:25	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:25	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.2	30-150		8/8/17 21:25
Decachlorobiphenyl [2]	67.6	30-150		8/8/17 21:25
Tetrachloro-m-xylene [1]	83.7	30-150		8/8/17 21:25
Tetrachloro-m-xylene [2]	85.1	30-150		8/8/17 21:25

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Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-1A
Sampled: 7/25/2017 11:06

Sample ID: 17G1074-08

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	91.7		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-1B Sampled: 7/25/2017 11:08

Sample ID: 17G1074-09

Sample Matrix: Soil

Sample Flags: RL-12

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Acenaphthylene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Anthracene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Benzo(a)anthracene	0.53	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Benzo(a)pyrene	0.45	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Benzo(b)fluoranthene	0.57	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Benzo(g,h,i)perylene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Benzo(k)fluoranthene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Chrysene	0.51	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Dibenz(a,h)anthracene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Fluoranthene	0.92	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Fluorene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Indeno(1,2,3-cd)pyrene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
2-Methylnaphthalene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Naphthalene	ND	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Phenanthrene	0.61	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL
Pyrene	0.87	0.38	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 16:42	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	52.4	30-130		8/5/17 16:42
2-Fluorobiphenyl	56.4	30-130		8/5/17 16:42
p-Terphenyl-d14	66.1	30-130		8/5/17 16:42

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-1B Sampled: 7/25/2017 11:08

Sample ID: 17G1074-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	210	110	mg/Kg dry	10		CTDEP ETPH	8/3/17	8/5/17 2:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	98.7	50-150		8/5/17 2:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-1B Sampled: 7/25/2017 11:08

Sample ID: 17G1074-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-2 Sampled: 7/25/2017 11:10

Sample ID: 17G1074-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 21:43	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		8/8/17 21:43
Decachlorobiphenyl [2]	73.3	30-150		8/8/17 21:43
Tetrachloro-m-xylene [1]	92.1	30-150		8/8/17 21:43
Tetrachloro-m-xylene [2]	90.1	30-150		8/8/17 21:43

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-2 Sampled: 7/25/2017 11:10

Sample ID: 17G1074-10

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	74.4		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-3 Sampled: 7/25/2017 11:12

Sample ID: 17G1074-11

Sample Matrix: Soil

Sample Flags: O-32

Polychlorinated 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	8/1/17	8/4/17 18:13	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/1/17	8/4/17 18:13	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	86.5	30-150		8/4/17 18:13
Decachlorobiphenyl [2]	91.1	30-150		8/4/17 18:13
Tetrachloro-m-xylene [1]	85.6	30-150		8/4/17 18:13
Tetrachloro-m-xylene [2]	83.3	30-150		8/4/17 18:13

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-19-3 Sampled: 7/25/2017 11:12

Sample ID: 17G1074-11

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	77.8		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-1 Sampled: 7/25/2017 11:20

Sample ID: 17G1074-12

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	7/31/17	8/8/17 22:48	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 22:48	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/8/17 22:48
Decachlorobiphenyl [2]	88.5	30-150		8/8/17 22:48
Tetrachloro-m-xylene [1]	95.8	30-150		8/8/17 22:48
Tetrachloro-m-xylene [2]	95.3	30-150		8/8/17 22:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-1 Sampled: 7/25/2017 11:20

Sample ID: 17G1074-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.2		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-2 Sampled: 7/25/2017 11:20

Sample ID: 17G1074-13

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	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		8/8/17 23:06
Decachlorobiphenyl [2]	67.8	30-150		8/8/17 23:06
Tetrachloro-m-xylene [1]	78.5	30-150		8/8/17 23:06
Tetrachloro-m-xylene [2]	78.0	30-150		8/8/17 23:06

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-2 Sampled: 7/25/2017 11:20

Sample ID: 17G1074-13

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	65.2		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-3 Sampled: 7/25/2017 11:22

Sample ID: 17G1074-14

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	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1254 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:24	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.3	30-150		8/8/17 23:24
Decachlorobiphenyl [2]	74.0	30-150		8/8/17 23:24
Tetrachloro-m-xylene [1]	80.0	30-150		8/8/17 23:24
Tetrachloro-m-xylene [2]	78.5	30-150		8/8/17 23:24

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-14-3 Sampled: 7/25/2017 11:22

Sample ID: 17G1074-14

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	59.4		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-1 Sampled: 7/25/2017 11:30

Sample ID: 17G1074-15

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	8/8/17 23:42	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:42	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	72.3	30-150		8/8/17 23:42
Decachlorobiphenyl [2]	67.7	30-150		8/8/17 23:42
Tetrachloro-m-xylene [1]	80.7	30-150		8/8/17 23:42
Tetrachloro-m-xylene [2]	81.7	30-150		8/8/17 23:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-1 Sampled: 7/25/2017 11:30

Sample ID: 17G1074-15

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	86.6		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-2 Sampled: 7/25/2017 11:32

Sample ID: 17G1074-16

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	7/31/17	8/8/17 23:59	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 23:59	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.7	30-150		8/8/17 23:59
Decachlorobiphenyl [2]	82.6	30-150		8/8/17 23:59
Tetrachloro-m-xylene [1]	90.9	30-150		8/8/17 23:59
Tetrachloro-m-xylene [2]	92.4	30-150		8/8/17 23:59

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Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-2
Sampled: 7/25/2017 11:32

Sample ID: 17G1074-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.8		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-3 Sampled: 7/25/2017 11:34

Sample ID: 17G1074-17

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	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.6	30-150		8/9/17 0:17
Decachlorobiphenyl [2]	63.5	30-150		8/9/17 0:17
Tetrachloro-m-xylene [1]	80.4	30-150		8/9/17 0:17
Tetrachloro-m-xylene [2]	80.8	30-150		8/9/17 0:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-20-3
Sampled: 7/25/2017 11:34

Sample ID: 17G1074-17

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	73.8		% 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: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-1A Sampled: 7/25/2017 11:37

Sample ID: 17G1074-18

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 0:35	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:35	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.9	30-150		8/9/17 0:35
Decachlorobiphenyl [2]	78.4	30-150		8/9/17 0:35
Tetrachloro-m-xylene [1]	88.9	30-150		8/9/17 0:35
Tetrachloro-m-xylene [2]	88.9	30-150		8/9/17 0:35

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-1A Sampled: 7/25/2017 11:37

Sample ID: 17G1074-18

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	92.1		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-1B Sampled: 7/25/2017 11:38

Sample ID: 17G1074-19

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	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Acenaphthylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Benzo(a)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Benzo(a)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Benzo(b)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Benzo(g,h,i)perylene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Benzo(k)fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Chrysene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Dibenz(a,h)anthracene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Fluoranthene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Fluorene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Indeno(1,2,3-cd)pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
2-Methylnaphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Naphthalene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Phenanthrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL
Pyrene	ND	0.20	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 15:51	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	70.8	30-130		8/4/17 15:51
2-Fluorobiphenyl	69.4	30-130		8/4/17 15:51
p-Terphenyl-d14	71.2	30-130		8/4/17 15:51

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-1B Sampled: 7/25/2017 11:38

Sample ID: 17G1074-19

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	34	12	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/5/17 1:29	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	61.6	50-150		8/5/17 1:29

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-1B
Sampled: 7/25/2017 11:38

Sample ID: 17G1074-19

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	86.0		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-2 Sampled: 7/25/2017 11:39

Sample ID: 17G1074-20

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 0:52	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/9/17 0:52	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	92.1	30-150		8/9/17 0:52
Decachlorobiphenyl [2]	84.6	30-150		8/9/17 0:52
Tetrachloro-m-xylene [1]	86.5	30-150		8/9/17 0:52
Tetrachloro-m-xylene [2]	89.0	30-150		8/9/17 0:52

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1074

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-2 Sampled: 7/25/2017 11:39

Sample ID: 17G1074-20

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	85.6		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1074-06 [WS-AOC12E-SO-47-2B]	B183209	30.0	1.00	08/03/17
17G1074-09 [WS-AOC12E-SO-19-1B]	B183209	30.0	1.00	08/03/17
17G1074-19 [WS-AOC12E-SO-40-1B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1074-01 [WS-AOC12E-SO-44-1]	B182840	07/29/17
17G1074-02 [WS-AOC12E-SO-44-2]	B182840	07/29/17
17G1074-03 [WS-AOC12E-SO-44-3]	B182840	07/29/17
17G1074-04 [WS-AOC12E-SO-47-1]	B182840	07/29/17
17G1074-05 [WS-AOC12E-SO-47-2A]	B182840	07/29/17
17G1074-06 [WS-AOC12E-SO-47-2B]	B182840	07/29/17
17G1074-07 [WS-AOC12E-SO-47-3]	B182840	07/29/17
17G1074-08 [WS-AOC12E-SO-19-1A]	B182840	07/29/17
17G1074-09 [WS-AOC12E-SO-19-1B]	B182840	07/29/17
17G1074-10 [WS-AOC12E-SO-19-2]	B182840	07/29/17
17G1074-11 [WS-AOC12E-SO-19-3]	B182840	07/29/17
17G1074-12 [WS-AOC12E-SO-14-1]	B182840	07/29/17
17G1074-13 [WS-AOC12E-SO-14-2]	B182840	07/29/17
17G1074-14 [WS-AOC12E-SO-14-3]	B182840	07/29/17
17G1074-15 [WS-AOC12E-SO-20-1]	B182840	07/29/17
17G1074-16 [WS-AOC12E-SO-20-2]	B182840	07/29/17
17G1074-17 [WS-AOC12E-SO-20-3]	B182840	07/29/17
17G1074-18 [WS-AOC12E-SO-40-1A]	B182840	07/29/17
17G1074-19 [WS-AOC12E-SO-40-1B]	B182840	07/29/17
17G1074-20 [WS-AOC12E-SO-40-2]	B182840	07/29/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1074-01 [WS-AOC12E-SO-44-1]	B182927	10.0	10.0	07/31/17
17G1074-02 [WS-AOC12E-SO-44-2]	B182927	10.0	10.0	07/31/17
17G1074-03 [WS-AOC12E-SO-44-3]	B182927	10.0	10.0	07/31/17
17G1074-04 [WS-AOC12E-SO-47-1]	B182927	10.0	10.0	07/31/17
17G1074-05 [WS-AOC12E-SO-47-2A]	B182927	10.0	10.0	07/31/17
17G1074-07 [WS-AOC12E-SO-47-3]	B182927	10.0	10.0	07/31/17
17G1074-08 [WS-AOC12E-SO-19-1A]	B182927	10.0	10.0	07/31/17
17G1074-10 [WS-AOC12E-SO-19-2]	B182927	10.0	10.0	07/31/17
17G1074-12 [WS-AOC12E-SO-14-1]	B182927	10.0	10.0	07/31/17
17G1074-13 [WS-AOC12E-SO-14-2]	B182927	10.0	10.0	07/31/17
17G1074-14 [WS-AOC12E-SO-14-3]	B182927	10.0	10.0	07/31/17
17G1074-15 [WS-AOC12E-SO-20-1]	B182927	10.0	10.0	07/31/17
17G1074-16 [WS-AOC12E-SO-20-2]	B182927	10.0	10.0	07/31/17
17G1074-17 [WS-AOC12E-SO-20-3]	B182927	10.0	10.0	07/31/17
17G1074-18 [WS-AOC12E-SO-40-1A]	B182927	10.0	10.0	07/31/17
17G1074-20 [WS-AOC12E-SO-40-2]	B182927	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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1074-11RE1 [WS-AOC12E-SO-19-3]	B183043	10.0	10.0	08/01/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1074-06 [WS-AOC12E-SO-47-2B]	B183204	30.0	1.00	08/03/17
17G1074-09 [WS-AOC12E-SO-19-1B]	B183204	30.0	1.00	08/03/17
17G1074-19 [WS-AOC12E-SO-40-1B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182927 - SW-846 3540C										
Blank (B182927-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	*0.220*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.190*		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg wet	0.200		87.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.180*		mg/Kg wet	0.200		90.2	30-150			
LCS (B182927-BS1)				Prepared: 07/31/17 Analyzed: 08/08/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.7	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.5	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		79.9	40-140			
Surrogate: Decachlorobiphenyl	*0.196*		mg/Kg wet	0.200		98.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.170*		mg/Kg wet	0.200		85.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.167*		mg/Kg wet	0.200		83.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.173*		mg/Kg wet	0.200		86.5	30-150			
LCS Dup (B182927-BSD1)				Prepared: 07/31/17 Analyzed: 08/08/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.6	40-140	3.97	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		93.9	40-140	2.36	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		88.0	40-140	4.08	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.3	40-140	5.44	30	
Surrogate: Decachlorobiphenyl	*0.218*		mg/Kg wet	0.200		109	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.188*		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.183*		mg/Kg wet	0.200		91.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.5	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182927 - SW-846 3540C										
Matrix Spike (B182927-MS1)		**Source: 17G1074-01**		Prepared: 07/31/17 Analyzed: 08/09/17						
Aroclor-1016	0.28	0.11	mg/Kg dry	0.224	ND	125	40-140			
Aroclor-1016 [2C]	0.23	0.11	mg/Kg dry	0.224	0.057	77.5	40-140			
Aroclor-1260	0.20	0.11	mg/Kg dry	0.224	ND	88.3	40-140			
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.224	ND	82.6	40-140			
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg dry	0.224		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.182*		mg/Kg dry	0.224		81.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.220*		mg/Kg dry	0.224		98.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.216*		mg/Kg dry	0.224		96.5	30-150			
Matrix Spike Dup (B182927-MSD1)		**Source: 17G1074-01**		Prepared: 07/31/17 Analyzed: 08/09/17						
Aroclor-1016	0.27	0.11	mg/Kg dry	0.224	ND	123	40-140	1.80	50	
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.224	0.057	71.9	40-140	5.60	50	
Aroclor-1260	0.19	0.11	mg/Kg dry	0.224	ND	83.1	40-140	6.15	50	
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.224	ND	78.6	40-140	4.99	50	
Surrogate: Decachlorobiphenyl	*0.183*		mg/Kg dry	0.224		81.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.166*		mg/Kg dry	0.224		74.1	30-150			
Surrogate: Tetrachloro-m-xylene	*0.200*		mg/Kg dry	0.224		89.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.200*		mg/Kg dry	0.224		89.4	30-150			
Batch B183043 - SW-846 3540C										
Blank (B183043-BLK1)				Prepared: 08/01/17 Analyzed: 08/04/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		92.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.192*		mg/Kg wet	0.200		96.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.171*		mg/Kg wet	0.200		85.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		81.1	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183043 - SW-846 3540C										
LCS (B183043-BS1)				Prepared: 08/01/17 Analyzed: 08/04/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.4	40-140			
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.4	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		87.2	40-140			
Surrogate: Decachlorobiphenyl	*0.184*		mg/Kg wet	0.200		91.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.191*		mg/Kg wet	0.200		95.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.169*		mg/Kg wet	0.200		84.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.7	30-150			
LCS Dup (B183043-BSD1)				Prepared: 08/01/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		94.4	40-140	5.46	30	
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1	40-140	3.87	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		92.2	40-140	3.04	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.0	40-140	3.11	30	
Surrogate: Decachlorobiphenyl	*0.188*		mg/Kg wet	0.200		94.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.195*		mg/Kg wet	0.200		97.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.180*		mg/Kg wet	0.200		90.2	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.172*		mg/Kg wet	0.200		85.9	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B182927-BS1

Date(s) Analyzed 08/08/2017 08/08/2017

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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B182927-BSD1 Date(s) Analyzed 08/08/2017 08/08/2017

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	0.18	
	2	0.000	-0.030	0.030	0.19	5.4
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B182927-MS1

Date(s) Analyzed 08/09/2017 08/09/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.28	
	2	0.000	-0.030	0.030	0.23	19.6
Aroclor-1260	1	0.000	-0.030	0.030	0.20	
	2	0.000	-0.030	0.030	0.18	10.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B182927-MSD1

Date(s) Analyzed 08/09/2017 08/09/2017

Instrument ID (1): ECD5

Instrument ID (2): ECD5

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.27	
	2	0.000	-0.030	0.030	0.22	20.4
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183043-BS1

Date(s) Analyzed 08/04/2017 08/04/2017

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	0.18	
	2	0.000	-0.030	0.030	0.18	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183043-BSD1

Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.18	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level
	Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.
	No results have been blank subtracted unless specified in the case narrative section.
O-32	A dilution was performed as part of the standard analytical procedure.
RL-12	Elevated reporting limit due to matrix interference.

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

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con-test ANALYTICAL LABORATORY

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	PAH	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-44-1	7/25/17	10:04		X	S	U	X					
2	WS-AOC12E-SO-44-2		11:02					X					
3	WS-AOC12E-SO-44-3		10:00					X					
4	WS-AOC12E-SO-47-1		10:55					X					
5	WS-AOC12E-SO-47-2A		10:50					X					
6	WS-AOC12E-SO-47-2B		10:51						X	X			
7	WS-AOC12E-SO-47-3		10:58					X					
8	WS-AOC12E-SO-19-1A		11:06					X					
9	WS-AOC12E-SO-19-1B		10:08						X	X			
10	WS-AOC12E-SO-19-2		11:10					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 5pm
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOCIZE-SO-19-3	7/25/17	11:12		X	S	U	X					
12	WS-AOCIZE-SO-14-1		11:20					X					
13	WS-AOCIZE-SO-14-2		11:20					X					
14	WS-AOCIZE-SO-14-3		11:22					X					
15	WS-AOCIZE-SO-20-1		11:30					X					
16	WS-AOCIZE-SO-20-2		11:32					X					
17	WS-AOCIZE-SO-20-3		11:34					X					
18	WS-AOCIZE-SO-40-1A		11:37					X					
19	WS-AOCIZE-SO-40-1B		11:38						X	X			
20	WS-AOCIZE-SO-40-2		11:39					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 5pm
Received by: (signature) 2.2	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson

Received By 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
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

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: 17G1074

Laboratory Sample ID(s):

17G1074-01 thru 17G1074-20

Sample Date(s):

07/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☑ Yes ☐ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/09/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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: 17G1075

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

17G1075-01 6

17G1075-02 8

17G1075-03 10

17G1075-04 12

17G1075-05 14

17G1075-06 16

17G1075-07 18

17G1075-08 20

17G1075-09 22

17G1075-10 24

17G1075-11 26

17G1075-12 28

17G1075-13 30

17G1075-14 33

17G1075-15 35

17G1075-16 37

17G1075-17 39

17G1075-18 41

17G1075-19 43

17G1075-20 45

Sample Preparation Information 47

QC Data 49

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 49

B183204 49

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 51

B183175 51

Petroleum Hydrocarbons Analyses 53

B182957 53

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 54

B182840 54

Dual Column RPD Report 55

Flag/Qualifier Summary 59

Certifications 60

Chain of Custody/Sample Receipt 62

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/8/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1075

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-40-3	17G1075-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-15-1	17G1075-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-15-2	17G1075-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-15-3	17G1075-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-38-1	17G1075-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-38-2	17G1075-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-38-3	17G1075-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-36-1	17G1075-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-36-2A	17G1075-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-36-2B	17G1075-10	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12E-SO-36-3	17G1075-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-11-1A	17G1075-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-11-1B	17G1075-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-11-2	17G1075-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-11-3	17G1075-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-33-1	17G1075-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-33-2	17G1075-17	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-33-3	17G1075-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-10-1	17G1075-19	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-10-2	17G1075-20	Soil		SM 2540G	
				SW-846 8082A	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

Qualifications:

S-13

Surrogate recovery is outside of control limits on both columns.
Data validation is not affected since all results are "not detected" and bias is on the high side.

Analyte & Samples(s) Qualified:

Decachlorobiphenyl [2C]
17G1075-01[WS-AOC12E-SO-40-3]

V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

Analyte & Samples(s) Qualified:

Aroclor-1260
B183175-MS1, B183175-MSD1

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1075-13[WS-AOC12E-SO-11-1B]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-3 Sampled: 7/25/2017 11:40

Sample ID: 17G1075-01

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 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:23	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.3	30-150		8/7/17 17:23
Decachlorobiphenyl [2]	**165** *	30-150	S-13	8/7/17 17:23
Tetrachloro-m-xylene [1]	68.1	30-150		8/7/17 17:23
Tetrachloro-m-xylene [2]	71.2	30-150		8/7/17 17:23

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-40-3 Sampled: 7/25/2017 11:40

Sample ID: 17G1075-01

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	76.1		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-1 Sampled: 7/25/2017 11:40

Sample ID: 17G1075-02

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	69.8	30-150		8/7/17 17:36
Decachlorobiphenyl [2]	84.3	30-150		8/7/17 17:36
Tetrachloro-m-xylene [1]	81.5	30-150		8/7/17 17:36
Tetrachloro-m-xylene [2]	92.3	30-150		8/7/17 17:36

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-1 Sampled: 7/25/2017 11:40

Sample ID: 17G1075-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.3		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-2 Sampled: 7/25/2017 11:42

Sample ID: 17G1075-03

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 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 17:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.1	30-150		8/7/17 17:48
Decachlorobiphenyl [2]	82.8	30-150		8/7/17 17:48
Tetrachloro-m-xylene [1]	82.2	30-150		8/7/17 17:48
Tetrachloro-m-xylene [2]	89.4	30-150		8/7/17 17:48

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-2 Sampled: 7/25/2017 11:42

Sample ID: 17G1075-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-3 Sampled: 7/25/2017 11:44

Sample ID: 17G1075-04

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 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1221 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1232 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1242 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1248 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1254 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1260 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1262 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL
Aroclor-1268 [2]	ND	0.18	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	67.0	30-150		8/7/17 18:01
Decachlorobiphenyl [2]	83.0	30-150		8/7/17 18:01
Tetrachloro-m-xylene [1]	87.3	30-150		8/7/17 18:01
Tetrachloro-m-xylene [2]	95.2	30-150		8/7/17 18:01

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-15-3 Sampled: 7/25/2017 11:44

Sample ID: 17G1075-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	57.0		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-1 Sampled: 7/25/2017 11:40

Sample ID: 17G1075-05

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:13	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	68.9	30-150		8/7/17 18:13
Decachlorobiphenyl [2]	79.8	30-150		8/7/17 18:13
Tetrachloro-m-xylene [1]	91.5	30-150		8/7/17 18:13
Tetrachloro-m-xylene [2]	102	30-150		8/7/17 18:13

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-1
Sampled: 7/25/2017 11:40

Sample ID: 17G1075-05

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	92.6		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-2 Sampled: 7/25/2017 11:41

Sample ID: 17G1075-06

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:25	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	54.2	30-150		8/7/17 18:25
Decachlorobiphenyl [2]	64.2	30-150		8/7/17 18:25
Tetrachloro-m-xylene [1]	69.6	30-150		8/7/17 18:25
Tetrachloro-m-xylene [2]	76.8	30-150		8/7/17 18:25

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-2 Sampled: 7/25/2017 11:41

Sample ID: 17G1075-06

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	88.6		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-3 Sampled: 7/25/2017 11:42

Sample ID: 17G1075-07

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 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1221 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1232 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1242 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1248 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1254 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1260 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1262 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL
Aroclor-1268 [2]	ND	0.21	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 18:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		8/7/17 18:38
Decachlorobiphenyl [2]	70.0	30-150		8/7/17 18:38
Tetrachloro-m-xylene [1]	75.5	30-150		8/7/17 18:38
Tetrachloro-m-xylene [2]	82.3	30-150		8/7/17 18:38

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-38-3 Sampled: 7/25/2017 11:42

Sample ID: 17G1075-07

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	48.3		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-1 Sampled: 7/25/2017 11:54

Sample ID: 17G1075-08

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	64.1	30-150		8/7/17 19:40
Decachlorobiphenyl [2]	76.9	30-150		8/7/17 19:40
Tetrachloro-m-xylene [1]	79.8	30-150		8/7/17 19:40
Tetrachloro-m-xylene [2]	87.3	30-150		8/7/17 19:40

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-1 Sampled: 7/25/2017 11:54

Sample ID: 17G1075-08

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	92.3		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-2A Sampled: 7/25/2017 11:56

Sample ID: 17G1075-09

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	53.8	30-150		8/7/17 19:52
Decachlorobiphenyl [2]	63.9	30-150		8/7/17 19:52
Tetrachloro-m-xylene [1]	72.7	30-150		8/7/17 19:52
Tetrachloro-m-xylene [2]	79.4	30-150		8/7/17 19:52

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Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-2A
Sampled: 7/25/2017 11:56

Sample ID: 17G1075-09

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	91.1		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-2B Sampled: 7/25/2017 11:57

Sample ID: 17G1075-10

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	510	61	mg/Kg dry	5		CTDEP ETPH	7/31/17	8/5/17 0:01	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	82.8	50-150		8/5/17 0:01

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-2B Sampled: 7/25/2017 11:57

Sample ID: 17G1075-10

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	81.8		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-3 Sampled: 7/25/2017 11:58

Sample ID: 17G1075-11

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 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	66.1	30-150		8/7/17 20:05
Decachlorobiphenyl [2]	80.4	30-150		8/7/17 20:05
Tetrachloro-m-xylene [1]	88.1	30-150		8/7/17 20:05
Tetrachloro-m-xylene [2]	96.4	30-150		8/7/17 20:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-36-3 Sampled: 7/25/2017 11:58

Sample ID: 17G1075-11

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	69.8		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-1A Sampled: 7/25/2017 11:54

Sample ID: 17G1075-12

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 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:17	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	57.6	30-150		8/7/17 20:17
Decachlorobiphenyl [2]	69.2	30-150		8/7/17 20:17
Tetrachloro-m-xylene [1]	73.5	30-150		8/7/17 20:17
Tetrachloro-m-xylene [2]	75.4	30-150		8/7/17 20:17

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-1A Sampled: 7/25/2017 11:54

Sample ID: 17G1075-12

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	69.5		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-1B Sampled: 7/25/2017 11:46

Sample ID: 17G1075-13

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	1.1	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Acenaphthylene	ND	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Anthracene	1.7	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Benzo(a)anthracene	3.0	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Benzo(a)pyrene	2.4	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Benzo(b)fluoranthene	2.8	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Benzo(g,h,i)perylene	1.8	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Benzo(k)fluoranthene	1.2	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Chrysene	2.7	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Dibenz(a,h)anthracene	ND	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Fluoranthene	7.6	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Fluorene	1.1	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Indeno(1,2,3-cd)pyrene	1.9	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
2-Methylnaphthalene	ND	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Naphthalene	ND	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Phenanthrene	7.7	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL
Pyrene	7.1	0.80	mg/Kg dry	4		SW-846 8270D	8/3/17	8/5/17 17:05	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	38.4	30-130		8/5/17 17:05
2-Fluorobiphenyl	41.4	30-130		8/5/17 17:05
p-Terphenyl-d14	51.9	30-130		8/5/17 17:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-1B Sampled: 7/25/2017 11:46

Sample ID: 17G1075-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	410	59	mg/Kg dry	5		CTDEP ETPH	7/31/17	8/5/17 0:18	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	105	50-150		8/5/17 0:18

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-1B Sampled: 7/25/2017 11:46

Sample ID: 17G1075-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-2 Sampled: 7/25/2017 11:48

Sample ID: 17G1075-14

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 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:30	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	63.2	30-150		8/7/17 20:30
Decachlorobiphenyl [2]	73.3	30-150		8/7/17 20:30
Tetrachloro-m-xylene [1]	86.1	30-150		8/7/17 20:30
Tetrachloro-m-xylene [2]	97.7	30-150		8/7/17 20:30

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-2 Sampled: 7/25/2017 11:48

Sample ID: 17G1075-14

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	75.9		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-3 Sampled: 7/25/2017 11:50

Sample ID: 17G1075-15

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:42	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	61.3	30-150		8/7/17 20:42
Decachlorobiphenyl [2]	73.4	30-150		8/7/17 20:42
Tetrachloro-m-xylene [1]	82.8	30-150		8/7/17 20:42
Tetrachloro-m-xylene [2]	95.5	30-150		8/7/17 20:42

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-11-3 Sampled: 7/25/2017 11:50

Sample ID: 17G1075-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.3		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-1 Sampled: 7/25/2017 12:11

Sample ID: 17G1075-16

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.8	30-150		8/7/17 20:54
Decachlorobiphenyl [2]	68.7	30-150		8/7/17 20:54
Tetrachloro-m-xylene [1]	69.2	30-150		8/7/17 20:54
Tetrachloro-m-xylene [2]	73.9	30-150		8/7/17 20:54

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-1 Sampled: 7/25/2017 12:11

Sample ID: 17G1075-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	92.0		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-2 Sampled: 7/25/2017 12:12

Sample ID: 17G1075-17

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:07	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	44.8	30-150		8/7/17 21:07
Decachlorobiphenyl [2]	53.7	30-150		8/7/17 21:07
Tetrachloro-m-xylene [1]	76.3	30-150		8/7/17 21:07
Tetrachloro-m-xylene [2]	88.3	30-150		8/7/17 21:07

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-2 Sampled: 7/25/2017 12:12

Sample ID: 17G1075-17

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	90.0		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-3 Sampled: 7/25/2017 12:13

Sample ID: 17G1075-18

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 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1221 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1232 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1242 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1248 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1254 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1260 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1262 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL
Aroclor-1268 [2]	ND	0.16	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.4	30-150		8/7/17 21:19
Decachlorobiphenyl [2]	78.6	30-150		8/7/17 21:19
Tetrachloro-m-xylene [1]	82.9	30-150		8/7/17 21:19
Tetrachloro-m-xylene [2]	85.6	30-150		8/7/17 21:19

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-33-3 Sampled: 7/25/2017 12:13

Sample ID: 17G1075-18

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	61.7		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-1 Sampled: 7/25/2017 12:00

Sample ID: 17G1075-19

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:32	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	56.6	30-150		8/7/17 21:32
Decachlorobiphenyl [2]	64.8	30-150		8/7/17 21:32
Tetrachloro-m-xylene [1]	81.0	30-150		8/7/17 21:32
Tetrachloro-m-xylene [2]	91.5	30-150		8/7/17 21:32

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-1 Sampled: 7/25/2017 12:00

Sample ID: 17G1075-19

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	83.5		% 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: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-2 Sampled: 7/25/2017 12:02

Sample ID: 17G1075-20

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	60.1	30-150		8/7/17 21:44
Decachlorobiphenyl [2]	66.9	30-150		8/7/17 21:44
Tetrachloro-m-xylene [1]	86.2	30-150		8/7/17 21:44
Tetrachloro-m-xylene [2]	97.4	30-150		8/7/17 21:44

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1075

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-2 Sampled: 7/25/2017 12:02

Sample ID: 17G1075-20

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	85.0		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1075-10 [WS-AOC12E-SO-36-2B]	B182957	30.0	1.00	07/31/17
17G1075-13 [WS-AOC12E-SO-11-1B]	B182957	30.0	1.00	07/31/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1075-01 [WS-AOC12E-SO-40-3]	B182840	07/29/17
17G1075-02 [WS-AOC12E-SO-15-1]	B182840	07/29/17
17G1075-03 [WS-AOC12E-SO-15-2]	B182840	07/29/17
17G1075-04 [WS-AOC12E-SO-15-3]	B182840	07/29/17
17G1075-05 [WS-AOC12E-SO-38-1]	B182840	07/29/17
17G1075-06 [WS-AOC12E-SO-38-2]	B182840	07/29/17
17G1075-07 [WS-AOC12E-SO-38-3]	B182840	07/29/17
17G1075-08 [WS-AOC12E-SO-36-1]	B182840	07/29/17
17G1075-09 [WS-AOC12E-SO-36-2A]	B182840	07/29/17
17G1075-10 [WS-AOC12E-SO-36-2B]	B182840	07/29/17
17G1075-11 [WS-AOC12E-SO-36-3]	B182840	07/29/17
17G1075-12 [WS-AOC12E-SO-11-1A]	B182840	07/29/17
17G1075-13 [WS-AOC12E-SO-11-1B]	B182840	07/29/17
17G1075-14 [WS-AOC12E-SO-11-2]	B182840	07/29/17
17G1075-15 [WS-AOC12E-SO-11-3]	B182840	07/29/17
17G1075-16 [WS-AOC12E-SO-33-1]	B182840	07/29/17
17G1075-17 [WS-AOC12E-SO-33-2]	B182840	07/29/17
17G1075-18 [WS-AOC12E-SO-33-3]	B182840	07/29/17
17G1075-19 [WS-AOC12E-SO-10-1]	B182840	07/29/17
17G1075-20 [WS-AOC12E-SO-10-2]	B182840	07/29/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1075-01 [WS-AOC12E-SO-40-3]	B183175	10.0	10.0	08/02/17
17G1075-02 [WS-AOC12E-SO-15-1]	B183175	10.0	10.0	08/02/17
17G1075-03 [WS-AOC12E-SO-15-2]	B183175	10.0	10.0	08/02/17
17G1075-04 [WS-AOC12E-SO-15-3]	B183175	10.0	10.0	08/02/17
17G1075-05 [WS-AOC12E-SO-38-1]	B183175	10.0	10.0	08/02/17
17G1075-06 [WS-AOC12E-SO-38-2]	B183175	10.0	10.0	08/02/17
17G1075-07 [WS-AOC12E-SO-38-3]	B183175	10.0	10.0	08/02/17
17G1075-08 [WS-AOC12E-SO-36-1]	B183175	10.0	10.0	08/02/17
17G1075-09 [WS-AOC12E-SO-36-2A]	B183175	10.0	10.0	08/02/17
17G1075-11 [WS-AOC12E-SO-36-3]	B183175	10.0	10.0	08/02/17
17G1075-12 [WS-AOC12E-SO-11-1A]	B183175	10.0	10.0	08/02/17
17G1075-14 [WS-AOC12E-SO-11-2]	B183175	10.0	10.0	08/02/17
17G1075-15 [WS-AOC12E-SO-11-3]	B183175	10.0	10.0	08/02/17
17G1075-16 [WS-AOC12E-SO-33-1]	B183175	10.0	10.0	08/02/17
17G1075-17 [WS-AOC12E-SO-33-2]	B183175	10.0	10.0	08/02/17
17G1075-18 [WS-AOC12E-SO-33-3]	B183175	10.0	10.0	08/02/17
17G1075-19 [WS-AOC12E-SO-10-1]	B183175	10.0	10.0	08/02/17
17G1075-20 [WS-AOC12E-SO-10-2]	B183175	10.0	10.0	08/02/17

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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
17G1075-13 [WS-AOC12E-SO-11-1B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183175 - SW-846 3540C										
Blank (B183175-BLK1)				Prepared: 08/02/17 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	*0.178*		mg/Kg wet	0.200		89.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.172*		mg/Kg wet	0.200		86.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.173*		mg/Kg wet	0.200		86.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.149*		mg/Kg wet	0.200		74.6	30-150			
LCS (B183175-BS1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		92.4	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.9	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.0	40-140			
Surrogate: Decachlorobiphenyl	*0.190*		mg/Kg wet	0.200		95.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.177*		mg/Kg wet	0.200		88.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.160*		mg/Kg wet	0.200		80.1	30-150			
LCS Dup (B183175-BSD1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.15	0.020	mg/Kg wet	0.200		75.0	40-140	14.8	30	
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200		77.7	40-140	17.3	30	
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		77.6	40-140	11.3	30	
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200		77.4	40-140	12.8	30	
Surrogate: Decachlorobiphenyl	*0.179*		mg/Kg wet	0.200		89.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.174*		mg/Kg wet	0.200		86.8	30-150			
Surrogate: Tetrachloro-m-xylene	*0.165*		mg/Kg wet	0.200		82.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.145*		mg/Kg wet	0.200		72.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183175 - SW-846 3540C										
Matrix Spike (B183175-MS1)		**Source: 17G1075-02**		Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.219	ND	88.6	40-140			
Aroclor-1016 [2C]	0.20	0.11	mg/Kg dry	0.219	ND	90.6	40-140			
Aroclor-1260	0.17	0.11	mg/Kg dry	0.219	ND	79.4	40-140			V-05
Aroclor-1260 [2C]	0.19	0.11	mg/Kg dry	0.219	ND	85.3	40-140			
Surrogate: Decachlorobiphenyl	*0.143*		mg/Kg dry	0.219		65.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.164*		mg/Kg dry	0.219		74.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.199*		mg/Kg dry	0.219		90.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.224*		mg/Kg dry	0.219		102	30-150			
Matrix Spike Dup (B183175-MSD1)		**Source: 17G1075-02**		Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.16	0.11	mg/Kg dry	0.219	ND	75.2	40-140	16.4	50	
Aroclor-1016 [2C]	0.17	0.11	mg/Kg dry	0.219	ND	78.5	40-140	14.2	50	
Aroclor-1260	0.15	0.11	mg/Kg dry	0.219	ND	66.9	40-140	17.1	50	V-05
Aroclor-1260 [2C]	0.15	0.11	mg/Kg dry	0.219	ND	68.5	40-140	21.8	50	
Surrogate: Decachlorobiphenyl	*0.129*		mg/Kg dry	0.219		58.7	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.152*		mg/Kg dry	0.219		69.5	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg dry	0.219		86.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.214*		mg/Kg dry	0.219		97.9	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 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-DUP5)		**Source: 17G1075-01**		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	68.2		% Wt		76.1			10.9	20	
Duplicate (B182840-DUP6)		**Source: 17G1075-02**		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	91.5		% Wt		91.3			0.219	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183175-BS1

Date(s) Analyzed 08/07/2017 08/07/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.18	5.7

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183175-BSD1 Date(s) Analyzed 08/07/2017 08/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.16	6.5
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.15	6.5

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183175-MS1 Date(s) Analyzed 08/07/2017 08/07/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	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	0.19	11.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183175-MSD1

Date(s) Analyzed 08/07/2017 08/07/2017

Instrument ID (1): ECD 9

Instrument ID (2): ECD 9

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.15	
	2	0.000	-0.030	0.030	0.15	0.0

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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.
RL-12	Elevated reporting limit due to matrix interference.
S-13	Surrogate recovery is outside of control limits on both columns. Data validation is not affected since all results are "not detected" and bias is on the high side.
V-05	Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1761075

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-40-3	7/25/17	11:40		X	S	G	X					
2	WS-AOC12E-SO-15-1	↓	11:40		↓	↓	↓	X					
3	WS-AOC12E-SO-15-2		11:42					X					
4	WS-AOC12E-SO-15-3		11:44					X					
5	WS-AOC12E-SO-38-1		11:40					X					
6	WS-AOC12E-SO-38-2		11:41					X					
7	WS-AOC12E-SO-38-3		11:42					X					
8	WS-AOC12E-SO-36-1		11:54					X					
9	WS-AOC12E-SO-36-2A		11:56					X					
10	WS-AOC12E-SO-36-2B	↓	11:57		↓	↓	↓			X			

Comments:
WS-AOC12E-SO-15-1 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 7/25/17 1020
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 5pm
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOCIZE-SO-36-3	7/25/17	11:58		X	S	U	X					
12	WS-AOCIZE-SO-11-1A		11:54					X					
13	WS-AOCIZE-SO-11-1B		11:46						X	X			
14	WS-AOCIZE-SO 11-2		11:48					X					
15	WS-AOCIZE-SO-11-3		11:50					X					
16	WS-AOCIZE-SO-33-1		12:11					X					
17	WS-AOCIZE-SO-33-2		12:12					X					
18	WS-AOCIZE-SO-33-3		12:13					X					
19	WS-AOCIZE-SO-18-1		12:00					X					
20	WS-AOCIZE-SO-18-2		12:02					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1530
Relinquished by: (signature)	Date/Time: 7/25/17 5P
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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East Longmeadow, MA. 01028
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson

Received By JM Date 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	22
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D <= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

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: 17G1075

Laboratory Sample ID(s):

17G1075-01 thru 17G1075-20

Sample Date(s):

07/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☐ Yes ☑ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

August 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: 17G1077

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G1077−01	7
17G1077−02	9
17G1077−03	11
17G1077−04	13
17G1077−05	15
17G1077−06	17
17G1077−07	19
17G1077−08	22
17G1077−09	24
17G1077−10	26
17G1077−11	28
17G1077−12	30
17G1077−13	32
17G1077−14	34
17G1077−15	37
17G1077−16	39
17G1077−17	41
17G1077−18	44
17G1077−19	46
17G1077−20	48
Sample Preparation Information	50
QC Data	52

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 52

B183204 52

PolycÜlorinated BipÜenyls witÜ 3540 SoxÜlet Extraction 54

B183171 54

Petroleum Hydrocarbons Analyses 56

B182909 56

B183276 56

Conventional CÜemistry Parameters by EPA/APHA/SW-846 MetÜods (Total) 57

B182840 57

Dual Column RPD Report 58

Flag/Qualifier Summary 62

Certifications 63

CÜain of Custody/Sample Receipt 65

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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: 17G1077

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-10-3	17G1077-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-32-1A	17G1077-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-32-1B	17G1077-03	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12E-SO-32-2	17G1077-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-32-3	17G1077-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-8-1A	17G1077-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-8-1B	17G1077-07	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-8-2	17G1077-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-8-3	17G1077-09	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-7-1	17G1077-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-7-2	17G1077-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-7-3	17G1077-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-26-1A	17G1077-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-26-1B	17G1077-14	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-26-2	17G1077-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-26-3	17G1077-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-16-1	17G1077-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-16-2	17G1077-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-16-3	17G1077-19	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: 17G1077

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-22-1A	17G1077-20	Soil		SM 2540G SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

CTDEP ETPH

Qualifications:

S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

Analyte & Samples(s) Qualified:

o-Terphenyl

17G1077-17RE1[WS-AOC12E-SO-16-1]

SW-846 8082A

Qualifications:

V-06

Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

Analyte & Samples(s) Qualified:

Aroclor-1260

B183171-MS1, B183171-MSD1

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Tod E. Kopyscinski
Laboratory Director

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-3 Sampled: 7/25/2017 12:04

Sample ID: 17G1077-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 19:48	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/7/17 19:48
Decachlorobiphenyl [2]	99.3	30-150		8/7/17 19:48
Tetrachloro-m-xylene [1]	88.0	30-150		8/7/17 19:48
Tetrachloro-m-xylene [2]	90.4	30-150		8/7/17 19:48

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-10-3 Sampled: 7/25/2017 12:04

Sample ID: 17G1077-01

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	73.8		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-1A Sampled: 7/25/2017 13:44

Sample ID: 17G1077-02

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	8/2/17	8/7/17 20:05	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:05	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.7	30-150		8/7/17 20:05
Decachlorobiphenyl [2]	96.6	30-150		8/7/17 20:05
Tetrachloro-m-xylene [1]	90.1	30-150		8/7/17 20:05
Tetrachloro-m-xylene [2]	92.9	30-150		8/7/17 20:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-1A Sampled: 7/25/2017 13:44

Sample ID: 17G1077-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-1B Sampled: 7/25/2017 13:46

Sample ID: 17G1077-03

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	73	11	mg/Kg dry	1		CTDEP ETPH	7/31/17	8/3/17 1:05	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	50.9	50-150		8/3/17 1:05

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-1B Sampled: 7/25/2017 13:46

Sample ID: 17G1077-03

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	91.6		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-2 Sampled: 7/25/2017 13:48

Sample ID: 17G1077-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:22	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.8	30-150		8/7/17 20:22
Decachlorobiphenyl [2]	96.0	30-150		8/7/17 20:22
Tetrachloro-m-xylene [1]	84.0	30-150		8/7/17 20:22
Tetrachloro-m-xylene [2]	84.7	30-150		8/7/17 20:22

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-2 Sampled: 7/25/2017 13:48

Sample ID: 17G1077-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.1		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-3 Sampled: 7/25/2017 13:50

Sample ID: 17G1077-05

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	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:40	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/7/17 20:40
Decachlorobiphenyl [2]	103	30-150		8/7/17 20:40
Tetrachloro-m-xylene [1]	84.5	30-150		8/7/17 20:40
Tetrachloro-m-xylene [2]	87.0	30-150		8/7/17 20:40

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-32-3 Sampled: 7/25/2017 13:50

Sample ID: 17G1077-05

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	69.6		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-1A Sampled: 7/25/2017 13:55

Sample ID: 17G1077-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 20:57	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/7/17 20:57
Decachlorobiphenyl [2]	102	30-150		8/7/17 20:57
Tetrachloro-m-xylene [1]	87.8	30-150		8/7/17 20:57
Tetrachloro-m-xylene [2]	90.1	30-150		8/7/17 20:57

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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-1A Sampled: 7/25/2017 13:55

Sample ID: 17G1077-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-1B Sampled: 7/25/2017 13:56

Sample ID: 17G1077-07

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:23	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	62.7	30-130		8/5/17 14:23
2-Fluorobiphenyl	67.2	30-130		8/5/17 14:23
p-Terphenyl-d14	73.0	30-130		8/5/17 14:23

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-1B Sampled: 7/25/2017 13:56

Sample ID: 17G1077-07

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	ND	11	mg/Kg dry	1		CTDEP ETPH	7/31/17	8/2/17 22:07	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	76.8	50-150		8/2/17 22:07

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-1B Sampled: 7/25/2017 13:56

Sample ID: 17G1077-07

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	88.8		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-2 Sampled: 7/25/2017 13:57

Sample ID: 17G1077-08

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	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:14	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	117	30-150		8/7/17 21:14
Decachlorobiphenyl [2]	107	30-150		8/7/17 21:14
Tetrachloro-m-xylene [1]	87.1	30-150		8/7/17 21:14
Tetrachloro-m-xylene [2]	89.5	30-150		8/7/17 21:14

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-2 Sampled: 7/25/2017 13:57

Sample ID: 17G1077-08

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	74.1		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-3 Sampled: 7/25/2017 13:58

Sample ID: 17G1077-09

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	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1254 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1260 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:31	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	98.0	30-150		8/7/17 21:31
Decachlorobiphenyl [2]	81.6	30-150		8/7/17 21:31
Tetrachloro-m-xylene [1]	81.4	30-150		8/7/17 21:31
Tetrachloro-m-xylene [2]	82.9	30-150		8/7/17 21:31

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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-8-3 Sampled: 7/25/2017 13:58

Sample ID: 17G1077-09

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	65.5		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-1 Sampled: 7/25/2017 14:05

Sample ID: 17G1077-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 21:49	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	118	30-150		8/7/17 21:49
Decachlorobiphenyl [2]	110	30-150		8/7/17 21:49
Tetrachloro-m-xylene [1]	91.2	30-150		8/7/17 21:49
Tetrachloro-m-xylene [2]	90.9	30-150		8/7/17 21:49

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-1 Sampled: 7/25/2017 14:05

Sample ID: 17G1077-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.1		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-2 Sampled: 7/25/2017 14:06

Sample ID: 17G1077-11

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 22:52	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	90.3	30-150		8/7/17 22:52
Decachlorobiphenyl [2]	91.4	30-150		8/7/17 22:52
Tetrachloro-m-xylene [1]	79.6	30-150		8/7/17 22:52
Tetrachloro-m-xylene [2]	81.1	30-150		8/7/17 22:52

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-2 Sampled: 7/25/2017 14:06

Sample ID: 17G1077-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.3		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-3 Sampled: 7/25/2017 14:07

Sample ID: 17G1077-12

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 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.6	30-150		8/7/17 23:10
Decachlorobiphenyl [2]	93.8	30-150		8/7/17 23:10
Tetrachloro-m-xylene [1]	81.2	30-150		8/7/17 23:10
Tetrachloro-m-xylene [2]	83.7	30-150		8/7/17 23:10

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-7-3 Sampled: 7/25/2017 14:07

Sample ID: 17G1077-12

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	72.7		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-1A Sampled: 7/25/2017 14:10

Sample ID: 17G1077-13

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 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1221 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1232 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1242 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1248 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1254 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1260 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1262 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL
Aroclor-1268 [2]	ND	0.14	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:27	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.5	30-150		8/7/17 23:27
Decachlorobiphenyl [2]	96.8	30-150		8/7/17 23:27
Tetrachloro-m-xylene [1]	94.8	30-150		8/7/17 23:27
Tetrachloro-m-xylene [2]	98.1	30-150		8/7/17 23:27

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-1A Sampled: 7/25/2017 14:10

Sample ID: 17G1077-13

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	70.3		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-1B Sampled: 7/25/2017 14:12

Sample ID: 17G1077-14

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Acenaphthylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Benzo(a)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Benzo(a)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Benzo(b)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Benzo(g,h,i)perylene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Benzo(k)fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Chrysene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Dibenz(a,h)anthracene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Fluoranthene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Fluorene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Indeno(1,2,3-cd)pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
2-Methylnaphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Naphthalene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Phenanthrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL
Pyrene	ND	0.19	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 17:06	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	73.0	30-130		8/4/17 17:06
2-Fluorobiphenyl	75.1	30-130		8/4/17 17:06
p-Terphenyl-d14	96.2	30-130		8/4/17 17:06

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-1B Sampled: 7/25/2017 14:12

Sample ID: 17G1077-14

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	200	110	mg/Kg dry	10		CTDEP ETPH	7/31/17	8/3/17 11:00	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.0	50-150		8/3/17 11:00

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-1B Sampled: 7/25/2017 14:12

Sample ID: 17G1077-14

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	91.8		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-2 Sampled: 7/25/2017 14:14

Sample ID: 17G1077-15

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/7/17 23:44	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/7/17 23:44
Decachlorobiphenyl [2]	102	30-150		8/7/17 23:44
Tetrachloro-m-xylene [1]	88.2	30-150		8/7/17 23:44
Tetrachloro-m-xylene [2]	90.2	30-150		8/7/17 23:44

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-2 Sampled: 7/25/2017 14:14

Sample ID: 17G1077-15

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	84.4		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-3 Sampled: 7/25/2017 14:16

Sample ID: 17G1077-16

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 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1221 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1232 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1242 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1248 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1254 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1260 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1262 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL
Aroclor-1268 [2]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:01	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	110	30-150		8/8/17 0:01
Decachlorobiphenyl [2]	103	30-150		8/8/17 0:01
Tetrachloro-m-xylene [1]	92.3	30-150		8/8/17 0:01
Tetrachloro-m-xylene [2]	94.2	30-150		8/8/17 0:01

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Project Location: 510 Grand Ave, New Haven, CT
Sample Description:
Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-26-3
Sampled: 7/25/2017 14:16

Sample ID: 17G1077-16

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	74.9		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-1 Sampled: 7/25/2017 14:23

Sample ID: 17G1077-17

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 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1221 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1232 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1242 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1248 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1254 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1260 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1262 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL
Aroclor-1268 [2]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.0	30-150		8/8/17 0:19
Decachlorobiphenyl [2]	98.2	30-150		8/8/17 0:19
Tetrachloro-m-xylene [1]	90.8	30-150		8/8/17 0:19
Tetrachloro-m-xylene [2]	92.5	30-150		8/8/17 0:19

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-1 Sampled: 7/25/2017 14:23

Sample ID: 17G1077-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	360	230	mg/Kg dry	20		CTDEP ETPH	8/3/17	8/5/17 2:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	*	50-150	S-01	8/5/17 2:23

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-1 Sampled: 7/25/2017 14:23

Sample ID: 17G1077-17

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	87.2		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-2 Sampled: 7/25/2017 14:24

Sample ID: 17G1077-18

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:36	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	103	30-150		8/8/17 0:36
Decachlorobiphenyl [2]	102	30-150		8/8/17 0:36
Tetrachloro-m-xylene [1]	91.2	30-150		8/8/17 0:36
Tetrachloro-m-xylene [2]	93.2	30-150		8/8/17 0:36

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-2 Sampled: 7/25/2017 14:24

Sample ID: 17G1077-18

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	84.8		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-3 Sampled: 7/25/2017 14:25

Sample ID: 17G1077-19

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 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1221 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1232 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1242 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1248 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1254 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1260 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1262 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL
Aroclor-1268 [2]	ND	0.19	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 0:53	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/8/17 0:53
Decachlorobiphenyl [2]	98.0	30-150		8/8/17 0:53
Tetrachloro-m-xylene [1]	83.7	30-150		8/8/17 0:53
Tetrachloro-m-xylene [2]	84.7	30-150		8/8/17 0:53

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-16-3 Sampled: 7/25/2017 14:25

Sample ID: 17G1077-19

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	53.5		% 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: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-1A Sampled: 7/25/2017 14:20

Sample ID: 17G1077-20

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 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1221 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1232 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1242 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1248 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1254 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1260 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1262 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL
Aroclor-1268 [2]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/2/17	8/8/17 1:10	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	94.2	30-150		8/8/17 1:10
Decachlorobiphenyl [2]	93.0	30-150		8/8/17 1:10
Tetrachloro-m-xylene [1]	88.8	30-150		8/8/17 1:10
Tetrachloro-m-xylene [2]	91.0	30-150		8/8/17 1:10

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1077

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-1A Sampled: 7/25/2017 14:20

Sample ID: 17G1077-20

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	86.1		% Wt	1		SM 2540G	7/29/17	7/31/17 7:51	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1077-03 [WS-AOC12E-SO-32-1B]	B182909	30.0	1.00	07/31/17
17G1077-07 [WS-AOC12E-SO-8-1B]	B182909	30.0	1.00	07/31/17
17G1077-14 [WS-AOC12E-SO-26-1B]	B182909	30.0	1.00	07/31/17

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1077-17RE1 [WS-AOC12E-SO-16-1]	B183276	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1077-01 [WS-AOC12E-SO-10-3]	B182840	07/29/17
17G1077-02 [WS-AOC12E-SO-32-1A]	B182840	07/29/17
17G1077-03 [WS-AOC12E-SO-32-1B]	B182840	07/29/17
17G1077-04 [WS-AOC12E-SO-32-2]	B182840	07/29/17
17G1077-05 [WS-AOC12E-SO-32-3]	B182840	07/29/17
17G1077-06 [WS-AOC12E-SO-8-1A]	B182840	07/29/17
17G1077-07 [WS-AOC12E-SO-8-1B]	B182840	07/29/17
17G1077-08 [WS-AOC12E-SO-8-2]	B182840	07/29/17
17G1077-09 [WS-AOC12E-SO-8-3]	B182840	07/29/17
17G1077-10 [WS-AOC12E-SO-7-1]	B182840	07/29/17
17G1077-11 [WS-AOC12E-SO-7-2]	B182840	07/29/17
17G1077-12 [WS-AOC12E-SO-7-3]	B182840	07/29/17
17G1077-13 [WS-AOC12E-SO-26-1A]	B182840	07/29/17
17G1077-14 [WS-AOC12E-SO-26-1B]	B182840	07/29/17
17G1077-15 [WS-AOC12E-SO-26-2]	B182840	07/29/17
17G1077-16 [WS-AOC12E-SO-26-3]	B182840	07/29/17
17G1077-17 [WS-AOC12E-SO-16-1]	B182840	07/29/17
17G1077-18 [WS-AOC12E-SO-16-2]	B182840	07/29/17
17G1077-19 [WS-AOC12E-SO-16-3]	B182840	07/29/17
17G1077-20 [WS-AOC12E-SO-22-1A]	B182840	07/29/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1077-01 [WS-AOC12E-SO-10-3]	B183171	10.0	10.0	08/02/17
17G1077-02 [WS-AOC12E-SO-32-1A]	B183171	10.0	10.0	08/02/17
17G1077-04 [WS-AOC12E-SO-32-2]	B183171	10.0	10.0	08/02/17
17G1077-05 [WS-AOC12E-SO-32-3]	B183171	10.0	10.0	08/02/17
17G1077-06 [WS-AOC12E-SO-8-1A]	B183171	10.0	10.0	08/02/17
17G1077-08 [WS-AOC12E-SO-8-2]	B183171	10.0	10.0	08/02/17
17G1077-09 [WS-AOC12E-SO-8-3]	B183171	10.0	10.0	08/02/17
17G1077-10 [WS-AOC12E-SO-7-1]	B183171	10.0	10.0	08/02/17
17G1077-11 [WS-AOC12E-SO-7-2]	B183171	10.0	10.0	08/02/17
17G1077-12 [WS-AOC12E-SO-7-3]	B183171	10.0	10.0	08/02/17
17G1077-13 [WS-AOC12E-SO-26-1A]	B183171	10.0	10.0	08/02/17
17G1077-15 [WS-AOC12E-SO-26-2]	B183171	10.0	10.0	08/02/17
17G1077-16 [WS-AOC12E-SO-26-3]	B183171	10.0	10.0	08/02/17
17G1077-17 [WS-AOC12E-SO-16-1]	B183171	10.0	10.0	08/02/17
17G1077-18 [WS-AOC12E-SO-16-2]	B183171	10.0	10.0	08/02/17

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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
17G1077-19 [WS-AOC12E-SO-16-3]	B183171	10.0	10.0	08/02/17
17G1077-20 [WS-AOC12E-SO-22-1A]	B183171	10.0	10.0	08/02/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1077-07 [WS-AOC12E-SO-8-1B]	B183204	30.0	1.00	08/03/17
17G1077-14 [WS-AOC12E-SO-26-1B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183171 - SW-846 3540C										
Blank (B183171-BLK1)				Prepared: 08/02/17 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	*0.227*		mg/Kg wet	0.200		114	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.202*		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene	*0.189*		mg/Kg wet	0.200		94.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.2	30-150			
LCS (B183171-BS1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.4	40-140			
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.8	40-140			
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		96.0	40-140			
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.2	40-140			
Surrogate: Decachlorobiphenyl	*0.233*		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.207*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.192*		mg/Kg wet	0.200		95.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.186*		mg/Kg wet	0.200		93.0	30-150			
LCS Dup (B183171-BSD1)				Prepared: 08/02/17 Analyzed: 08/07/17						
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		98.1	40-140	0.308	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		97.9	40-140	0.850	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		95.1	40-140	0.954	30	
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.5	40-140	0.717	30	
Surrogate: Decachlorobiphenyl	*0.231*		mg/Kg wet	0.200		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.205*		mg/Kg wet	0.200		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.188*		mg/Kg wet	0.200		94.1	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.183*		mg/Kg wet	0.200		91.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183171 - SW-846 3540C										
Matrix Spike (B183171-MS1)		**Source: 17G1077-01**		Prepared: 08/02/17 Analyzed: 08/08/17						
Aroclor-1016	0.24	0.14	mg/Kg dry	0.271	ND	88.7	40-140			
Aroclor-1016 [2C]	0.25	0.14	mg/Kg dry	0.271	ND	92.4	40-140			
Aroclor-1260	0.26	0.14	mg/Kg dry	0.271	ND	94.7	40-140			V-06
Aroclor-1260 [2C]	0.25	0.14	mg/Kg dry	0.271	ND	92.0	40-140			
Surrogate: Decachlorobiphenyl	*0.291*		mg/Kg dry	0.271		107	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.278*		mg/Kg dry	0.271		103	30-150			
Surrogate: Tetrachloro-m-xylene	*0.252*		mg/Kg dry	0.271		92.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.255*		mg/Kg dry	0.271		94.0	30-150			
Matrix Spike Dup (B183171-MSD1)		**Source: 17G1077-01**		Prepared: 08/02/17 Analyzed: 08/08/17						
Aroclor-1016	0.24	0.14	mg/Kg dry	0.271	ND	86.8	40-140	2.19	50	
Aroclor-1016 [2C]	0.23	0.14	mg/Kg dry	0.271	ND	84.8	40-140	8.53	50	
Aroclor-1260	0.23	0.14	mg/Kg dry	0.271	ND	83.8	40-140	12.2	50	V-06
Aroclor-1260 [2C]	0.23	0.14	mg/Kg dry	0.271	ND	83.8	40-140	9.26	50	
Surrogate: Decachlorobiphenyl	*0.260*		mg/Kg dry	0.271		95.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.249*		mg/Kg dry	0.271		92.0	30-150			
Surrogate: Tetrachloro-m-xylene	*0.222*		mg/Kg dry	0.271		81.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.227*		mg/Kg dry	0.271		83.9	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 B182909 - SW-846 3546										
Blank (B182909-BLK1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.1	50-150			
LCS (B182909-BS1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	24.5	10	mg/Kg wet	33.3		73.5	60-120			
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.8	50-150			
LCS Dup (B182909-BSD1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	24.3	10	mg/Kg wet	33.3		72.8	60-120	1.06	30	
Surrogate: o-Terphenyl	*2.61*		mg/Kg wet	3.33		78.3	50-150			
Batch B183276 - SW-846 3546										
Blank (B183276-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*3.29*		mg/Kg wet	3.33		98.8	50-150			
LCS (B183276-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	28.8	10	mg/Kg wet	33.3		86.3	60-120			
Surrogate: o-Terphenyl	*2.70*		mg/Kg wet	3.33		80.9	50-150			
LCS Dup (B183276-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
CT ETPH	30.5	10	mg/Kg wet	33.3		91.6	60-120	5.93	30	
Surrogate: o-Terphenyl	*2.84*		mg/Kg wet	3.33		85.3	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182840 - % Solids										
Duplicate (B182840-DUP7)		**Source: 17G1077-01**		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	77.4		% Wt		73.8			4.76	20	
Duplicate (B182840-DUP8)		**Source: 17G1077-02**		Prepared: 07/29/17 Analyzed: 07/31/17						
% Solids	82.0		% Wt		83.7			2.05	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183171-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	0.20	
	2	0.000	-0.030	0.030	0.20	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183171-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	0.20	
	2	0.000	-0.030	0.030	0.20	0.0
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.18	5.4

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183171-MS1 Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.25	4.1
Aroclor-1260	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.25	3.9

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183171-MSD1

Date(s) Analyzed: 08/08/2017 08/08/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.24	
	2	0.000	-0.030	0.030	0.23	4.3
Aroclor-1260	1	0.000	-0.030	0.030	0.23	
	2	0.000	-0.030	0.030	0.23	0.0

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

S-01	The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
V-06	Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

1791077

con-test ANALYTICAL LABORATORY

Phone: 413-525-2332
Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-10-3	7/25/17	12:04		X	S	U	X					
2	WS-AOC12E-SO-32-1A		13:44					X					
3	WS-AOC12E-SO-32-1B		13:46							X			
4	WS-AOC12E-SO-32-2		13:48					X					
5	WS-AOC12E-SO-32-3		13:50					X					
6	WS-AOC12E-SO-8-1A		13:55					X					
7	WS-AOC12E-SO-8-1B		13:54						X	X			
8	WS-AOC12E-SO-8-2		13:57					X					
9	WS-AOC12E-SO-8-3		13:58					X					
10	WS-AOC12E-SO-7-1		14:05					X					

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define)

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 5PM
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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Table of Contents

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
11	WS-AOC12E-SO-7-2	7/25/17	14:06		X	S	V	X					
12	WS-AOC12E-SO-7-3		14:07					X					
13	WS-AOC12E-SO-26-1A		14:10					X					
14	WS-AOC12E-SO-26-1B		14:12					X	X	X			
15	WS-AOC12E-SO-26-2		14:14					X					
16	WS-AOC12E-SO-26-3		14:16					X					
17	WS-AOC12E-SO-16-1		14:23					X		X			
18	WS-AOC12E-SO-16-2		14:24					X					
19	WS-AOC12E-SO-16-3		14:25					X					
20	WS-AOC12E-SO-22-1A		14:20					X					

Dissolved Metals Samples:
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples:
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 1700
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA:
CT: RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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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
Proper Media/Containers Used? T Is splitting samples required? N/A
Were trip blanks received? N/A On COC? N/A
Do all samples have the proper pH? N/A Acid ____ Base ____

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	20
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\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:\HPCHEM\1\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

D:\HPCHEM\1\DATA\A080417\A0804042.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804042.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	496930	540759	-8
c - 10	1.43	504684	540759	-7
c - 12	2.16	531774	540759	-2
c - 14	2.84	548652	540759	1
c - 16	3.44	561658	540759	4
c - 18	4.02	556185	540759	3
o-Terphenyl	4.30	591043	540759	
c - 20	4.63	564764	540759	4
c - 22	5.15	571232	540759	6
c - 24	5.60	531546	540759	-2
c - 26	6.00	557639	540759	3
c - 28	6.36	545631	540759	1
c - 30	6.69	541457	540759	0
c - 32	7.00	529841	540759	-2
c - 34	7.30	534051	540759	-1
c - 36	7.58	535342	540759	-1

* One compound allowed %D <= 50%

Samples

17G1258-10
17G1258-11
17G1188-01
17G1188-02
17G1188-03

D:\HPCHEM\1\DATA\A080417\A0804078.D

CT ETPH DISCRIMINATION CHECK

Date Acquired	8/4/17
Data File Name	A0804078.D
Sample Name	ETPH 1500
Instrument Name	5890DFID

Compound	Ret Time	Target Response	Average Response	*%D +/- 20
c - 9	1.07	451447	495950	-9
c - 10	1.43	453087	495950	-9
c - 12	2.16	479235	495950	-3
c - 14	2.84	491947	495950	-1
c - 16	3.44	506893	495950	2
c - 18	4.02	504487	495950	2
o-Terphenyl	4.31	554881	495950	
c - 20	4.63	517031	495950	4
c - 22	5.15	526767	495950	6
c - 24	5.60	494638	495950	0
c - 26	5.99	520797	495950	5
c - 28	6.35	509017	495950	3
c - 30	6.69	504152	495950	2
c - 32	7.00	490587	495950	-1
c - 34	7.29	493940	495950	0
c - 36	7.58	495218	495950	0

* One compound allowed %D </= 50%

Samples

17G1257-13
17G1257-18
17G1254-18
17G1169-17
17G1075-10@5X
17G1075-13@5X
17G1172-11
17G1074-19
17G1074-06@10X
17G1074-09@10X
17G1077-17RE1@20X

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: 17G1077

Laboratory Sample ID(s):

17G1077-01 thru 17G1077-20

Sample Date(s):

07/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: 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.

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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: 17G1079

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,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary 4

Case Narrative 5

Sample Results 6

17G1079-01 6

17G1079-02 8

17G1079-03 10

17G1079-04 12

17G1079-05 14

17G1079-06 16

17G1079-07 19

17G1079-08 21

17G1079-09 23

17G1079-10 26

17G1079-11 28

17G1079-12 30

17G1079-13 32

Sample Preparation Information 35

QC Data 36

Semivolatile Organic Compounds by GC/MS 36

B183204 36

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 39

B182924 39

Petroleum Hydrocarbons Analyses 41

B182909 41

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 42

Table of Contents (continued)

B182877 42

Flag/Qualifier Summary 43

Certifications 44

Chain of Custody/Sample Receipt 46

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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: 17G1079

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-22-1B	17G1079-01	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12E-SO-22-2	17G1079-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-22-3	17G1079-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-30-1	17G1079-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-30-2A	17G1079-05	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-30-2B	17G1079-06	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-30-3	17G1079-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-DUP-21A	17G1079-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-DUP-21B	17G1079-09	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-DUP-22	17G1079-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-DUP-23	17G1079-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-DUP-24	17G1079-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-DUP-25	17G1079-13	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	

con-test® ANALYTICAL LABORATORY

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

SW-846 8270D

Qualifications:

RL-12

Elevated reporting limit due to matrix interference.

Analyte & Samples(s) Qualified:

17G1079-06[WS-AOC12E-SO-30-2B], 17G1079-09[WS-AOC12E-SO-DUP-21B], 17G1079-13[WS-AOC12E-SO-DUP-25]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-1B Sampled: 7/25/2017 14:22

Sample ID: 17G1079-01

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	280	110	mg/Kg dry	10		CTDEP ETPH	7/31/17	8/3/17 10:24	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	80.7	50-150		8/3/17 10:24

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-1B Sampled: 7/25/2017 14:22

Sample ID: 17G1079-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.4		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-2 Sampled: 7/25/2017 14:24

Sample ID: 17G1079-02

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	8/8/17 12:38	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:38	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	87.1	30-150		8/8/17 12:38
Decachlorobiphenyl [2]	89.6	30-150		8/8/17 12:38
Tetrachloro-m-xylene [1]	78.8	30-150		8/8/17 12:38
Tetrachloro-m-xylene [2]	82.0	30-150		8/8/17 12:38

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-2 Sampled: 7/25/2017 14:24

Sample ID: 17G1079-02

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	88.8		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-3 Sampled: 7/25/2017 14:26

Sample ID: 17G1079-03

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 12:51	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 12:51	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	104	30-150		8/8/17 12:51
Decachlorobiphenyl [2]	105	30-150		8/8/17 12:51
Tetrachloro-m-xylene [1]	95.0	30-150		8/8/17 12:51
Tetrachloro-m-xylene [2]	98.3	30-150		8/8/17 12:51

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-22-3 Sampled: 7/25/2017 14:26

Sample ID: 17G1079-03

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	84.8		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-1 Sampled: 7/25/2017 15:06

Sample ID: 17G1079-04

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	7/31/17	8/8/17 13:03	KAL
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:03	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		8/8/17 13:03
Decachlorobiphenyl [2]	95.3	30-150		8/8/17 13:03
Tetrachloro-m-xylene [1]	101	30-150		8/8/17 13:03
Tetrachloro-m-xylene [2]	106	30-150		8/8/17 13:03

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-1 Sampled: 7/25/2017 15:06

Sample ID: 17G1079-04

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	96.4		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-2A Sampled: 7/25/2017 15:08

Sample ID: 17G1079-05

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:16	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	76.6	30-150		8/8/17 13:16
Decachlorobiphenyl [2]	82.4	30-150		8/8/17 13:16
Tetrachloro-m-xylene [1]	82.5	30-150		8/8/17 13:16
Tetrachloro-m-xylene [2]	88.7	30-150		8/8/17 13:16

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-2A Sampled: 7/25/2017 15:08

Sample ID: 17G1079-05

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	86.0		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-2B Sampled: 7/25/2017 15:10

Sample ID: 17G1079-06

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	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Acenaphthylene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Anthracene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Benzo(a)anthracene	0.63	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Benzo(a)pyrene	0.52	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Benzo(b)fluoranthene	0.63	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Benzo(g,h,i)perylene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Benzo(k)fluoranthene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Chrysene	0.56	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Dibenz(a,h)anthracene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Fluoranthene	1.2	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Fluorene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Indeno(1,2,3-cd)pyrene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
2-Methylnaphthalene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Naphthalene	ND	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Phenanthrene	1.2	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL
Pyrene	1.2	0.48	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:29	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.1	30-130		8/5/17 17:29
2-Fluorobiphenyl	58.8	30-130		8/5/17 17:29
p-Terphenyl-d14	73.3	30-130		8/5/17 17:29

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-2B Sampled: 7/25/2017 15:10

Sample ID: 17G1079-06

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	88	14	mg/Kg dry	1		CTDEP ETPH	7/31/17	8/3/17 1:23	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	61.3	50-150		8/3/17 1:23

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-2B Sampled: 7/25/2017 15:10

Sample ID: 17G1079-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.8		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-3 Sampled: 7/25/2017 15:12

Sample ID: 17G1079-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:29	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	85.0	30-150		8/8/17 13:29
Decachlorobiphenyl [2]	92.8	30-150		8/8/17 13:29
Tetrachloro-m-xylene [1]	96.6	30-150		8/8/17 13:29
Tetrachloro-m-xylene [2]	101	30-150		8/8/17 13:29

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-30-3 Sampled: 7/25/2017 15:12

Sample ID: 17G1079-07

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	75.4		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-21A Sampled: 7/25/2017 00:00

Sample ID: 17G1079-08

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	8/8/17 13:41	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:41	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	83.4	30-150		8/8/17 13:41
Decachlorobiphenyl [2]	89.8	30-150		8/8/17 13:41
Tetrachloro-m-xylene [1]	94.5	30-150		8/8/17 13:41
Tetrachloro-m-xylene [2]	99.3	30-150		8/8/17 13:41

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-21A Sampled: 7/25/2017 00:00

Sample ID: 17G1079-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.3		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-21B Sampled: 7/25/2017 00:00

Sample ID: 17G1079-09

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	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Acenaphthylene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Anthracene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Benzo(a)anthracene	0.55	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Benzo(a)pyrene	0.49	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Benzo(b)fluoranthene	0.66	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Benzo(g,h,i)perylene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Benzo(k)fluoranthene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Chrysene	0.65	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Dibenz(a,h)anthracene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Fluoranthene	0.98	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Fluorene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Indeno(1,2,3-cd)pyrene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
2-Methylnaphthalene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Naphthalene	ND	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Phenanthrene	0.53	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL
Pyrene	1.1	0.41	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 17:52	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	64.9	30-130		8/5/17 17:52
2-Fluorobiphenyl	68.2	30-130		8/5/17 17:52
p-Terphenyl-d14	80.6	30-130		8/5/17 17:52

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-21B Sampled: 7/25/2017 00:00

Sample ID: 17G1079-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	140	60	mg/Kg dry	5		CTDEP ETPH	7/31/17	8/3/17 12:49	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	58.2	50-150		8/3/17 12:49

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-21B Sampled: 7/25/2017 00:00

Sample ID: 17G1079-09

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	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-22 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-10

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	8/8/17 13:54	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 13:54	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.9	30-150		8/8/17 13:54
Decachlorobiphenyl [2]	85.3	30-150		8/8/17 13:54
Tetrachloro-m-xylene [1]	89.2	30-150		8/8/17 13:54
Tetrachloro-m-xylene [2]	95.5	30-150		8/8/17 13:54

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-22 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-10

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	89.4		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-23 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-11

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	8/8/17 14:06	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:06	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.4	30-150		8/8/17 14:06
Decachlorobiphenyl [2]	86.2	30-150		8/8/17 14:06
Tetrachloro-m-xylene [1]	89.8	30-150		8/8/17 14:06
Tetrachloro-m-xylene [2]	95.3	30-150		8/8/17 14:06

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-23 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.1		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-24 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-12

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	7/31/17	8/8/17 14:19	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	7/31/17	8/8/17 14:19	KAL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	70.9	30-150		8/8/17 14:19
Decachlorobiphenyl [2]	79.4	30-150		8/8/17 14:19
Tetrachloro-m-xylene [1]	77.8	30-150		8/8/17 14:19
Tetrachloro-m-xylene [2]	80.5	30-150		8/8/17 14:19

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-24 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-12

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	87.1		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-25 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-13

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	8/3/17	8/5/17 18:15	BGL
Acenaphthylene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Benzo(a)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Benzo(a)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Benzo(b)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Benzo(g,h,i)perylene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Benzo(k)fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Chrysene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Dibenz(a,h)anthracene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Fluoranthene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Fluorene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Indeno(1,2,3-cd)pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
2-Methylnaphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Naphthalene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Phenanthrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL
Pyrene	ND	0.37	mg/Kg dry	2		SW-846 8270D	8/3/17	8/5/17 18:15	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	51.8	30-130		8/5/17 18:15
2-Fluorobiphenyl	63.3	30-130		8/5/17 18:15
p-Terphenyl-d14	90.7	30-130		8/5/17 18:15

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-25 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-13

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	440	110	mg/Kg dry	10		CTDEP ETPH	7/31/17	8/3/17 10:42	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	84.4	50-150		8/3/17 10:42

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT Sample Description: Work Order: 17G1079

Date Received: 7/25/2017

Field Sample #: WS-AOC12E-SO-DUP-25 Sampled: 7/25/2017 00:00

Sample ID: 17G1079-13

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	91.1		% Wt	1		SM 2540G	7/31/17	8/1/17 9:03	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1079-01 [WS-AOC12E-SO-22-1B]	B182909	30.0	1.00	07/31/17
17G1079-06 [WS-AOC12E-SO-30-2B]	B182909	30.0	1.00	07/31/17
17G1079-09 [WS-AOC12E-SO-DUP-21B]	B182909	30.0	1.00	07/31/17
17G1079-13 [WS-AOC12E-SO-DUP-25]	B182909	30.0	1.00	07/31/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1079-01 [WS-AOC12E-SO-22-1B]	B182877	07/31/17
17G1079-02 [WS-AOC12E-SO-22-2]	B182877	07/31/17
17G1079-03 [WS-AOC12E-SO-22-3]	B182877	07/31/17
17G1079-04 [WS-AOC12E-SO-30-1]	B182877	07/31/17
17G1079-05 [WS-AOC12E-SO-30-2A]	B182877	07/31/17
17G1079-06 [WS-AOC12E-SO-30-2B]	B182877	07/31/17
17G1079-07 [WS-AOC12E-SO-30-3]	B182877	07/31/17
17G1079-08 [WS-AOC12E-SO-DUP-21A]	B182877	07/31/17
17G1079-09 [WS-AOC12E-SO-DUP-21B]	B182877	07/31/17
17G1079-10 [WS-AOC12E-SO-DUP-22]	B182877	07/31/17
17G1079-11 [WS-AOC12E-SO-DUP-23]	B182877	07/31/17
17G1079-12 [WS-AOC12E-SO-DUP-24]	B182877	07/31/17
17G1079-13 [WS-AOC12E-SO-DUP-25]	B182877	07/31/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1079-02 [WS-AOC12E-SO-22-2]	B182924	10.0	10.0	07/31/17
17G1079-03 [WS-AOC12E-SO-22-3]	B182924	10.0	10.0	07/31/17
17G1079-04 [WS-AOC12E-SO-30-1]	B182924	10.0	10.0	07/31/17
17G1079-05 [WS-AOC12E-SO-30-2A]	B182924	10.0	10.0	07/31/17
17G1079-07 [WS-AOC12E-SO-30-3]	B182924	10.0	10.0	07/31/17
17G1079-08 [WS-AOC12E-SO-DUP-21A]	B182924	10.0	10.0	07/31/17
17G1079-10 [WS-AOC12E-SO-DUP-22]	B182924	10.0	10.0	07/31/17
17G1079-11 [WS-AOC12E-SO-DUP-23]	B182924	10.0	10.0	07/31/17
17G1079-12 [WS-AOC12E-SO-DUP-24]	B182924	10.0	10.0	07/31/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1079-06 [WS-AOC12E-SO-30-2B]	B183204	30.0	1.00	08/03/17
17G1079-09 [WS-AOC12E-SO-DUP-21B]	B183204	30.0	1.00	08/03/17
17G1079-13 [WS-AOC12E-SO-DUP-25]	B183204	30.0	1.00	08/03/17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			
Matrix Spike (B183204-MS1)	**Source: 17G1079-06**			Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	1.62	0.48	mg/Kg dry	2.35	0.145	62.8	40-140			
Acenaphthylene	1.38	0.48	mg/Kg dry	2.35	ND	58.6	40-140			
Anthracene	1.87	0.48	mg/Kg dry	2.35	0.296	66.8	40-140			
Benzo(a)anthracene	2.44	0.48	mg/Kg dry	2.35	0.626	77.2	40-140			
Benzo(a)pyrene	2.28	0.48	mg/Kg dry	2.35	0.521	74.9	40-140			
Benzo(b)fluoranthene	2.40	0.48	mg/Kg dry	2.35	0.631	75.0	40-140			
Benzo(g,h,i)perylene	2.07	0.48	mg/Kg dry	2.35	0.394	71.1	40-140			
Benzo(k)fluoranthene	1.96	0.48	mg/Kg dry	2.35	0.235	73.4	40-140			
Chrysene	2.35	0.48	mg/Kg dry	2.35	0.563	76.0	40-140			
Dibenz(a,h)anthracene	1.59	0.48	mg/Kg dry	2.35	ND	67.4	40-140			
Fluoranthene	3.22	0.48	mg/Kg dry	2.35	1.18	86.8	40-140			
Fluorene	1.59	0.48	mg/Kg dry	2.35	ND	67.6	40-140			
Indeno(1,2,3-cd)pyrene	1.98	0.48	mg/Kg dry	2.35	0.404	66.9	40-140			
2-Methylnaphthalene	1.48	0.48	mg/Kg dry	2.35	ND	63.1	40-140			
Naphthalene	1.70	0.48	mg/Kg dry	2.35	0.281	60.1	40-140			
Phenanthrene	3.31	0.48	mg/Kg dry	2.35	1.25	87.8	40-140			
Pyrene	3.24	0.48	mg/Kg dry	2.35	1.19	87.4	40-140			
Surrogate: Nitrobenzene-d5	*2.96*		mg/Kg dry	4.71		62.9	30-130			
Surrogate: 2-Fluorobiphenyl	*3.15*		mg/Kg dry	4.71		67.0	30-130			
Surrogate: p-Terphenyl-d14	*3.54*		mg/Kg dry	4.71		75.2	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Matrix Spike Dup (B183204-MSD1)		**Source: 17G1079-06**		Prepared: 08/03/17 Analyzed: 08/05/17						
Acenaphthene	1.40	0.48	mg/Kg dry	2.35	0.145	53.1	40-140	15.1	30	
Acenaphthylene	1.17	0.48	mg/Kg dry	2.35	ND	49.6	40-140	16.5	30	
Anthracene	1.65	0.48	mg/Kg dry	2.35	0.296	57.7	40-140	12.1	30	
Benzo(a)anthracene	2.25	0.48	mg/Kg dry	2.35	0.626	68.8	40-140	8.47	30	
Benzo(a)pyrene	2.03	0.48	mg/Kg dry	2.35	0.521	64.2	40-140	11.6	30	
Benzo(b)fluoranthene	2.20	0.48	mg/Kg dry	2.35	0.631	66.8	40-140	8.39	30	
Benzo(g,h,i)perylene	1.78	0.48	mg/Kg dry	2.35	0.394	59.1	40-140	14.7	30	
Benzo(k)fluoranthene	1.67	0.48	mg/Kg dry	2.35	0.235	61.1	40-140	16.0	30	
Chrysene	2.13	0.48	mg/Kg dry	2.35	0.563	66.6	40-140	9.96	30	
Dibenz(a,h)anthracene	1.30	0.48	mg/Kg dry	2.35	ND	55.1	40-140	20.1	30	
Fluoranthene	3.17	0.48	mg/Kg dry	2.35	1.18	84.4	40-140	1.74	30	
Fluorene	1.36	0.48	mg/Kg dry	2.35	ND	57.7	40-140	15.8	30	
Indeno(1,2,3-cd)pyrene	1.72	0.48	mg/Kg dry	2.35	0.404	55.7	40-140	14.2	30	
2-Methylnaphthalene	1.29	0.48	mg/Kg dry	2.35	ND	54.8	40-140	14.1	30	
Naphthalene	1.42	0.48	mg/Kg dry	2.35	0.281	48.4	40-140	17.8	30	
Phenanthrene	3.23	0.48	mg/Kg dry	2.35	1.25	84.4	40-140	2.39	30	
Pyrene	3.17	0.48	mg/Kg dry	2.35	1.19	84.3	40-140	2.23	30	
Surrogate: Nitrobenzene-d5	*2.49*		mg/Kg dry	4.71		53.0	30-130			
Surrogate: 2-Fluorobiphenyl	*2.72*		mg/Kg dry	4.71		57.7	30-130			
Surrogate: p-Terphenyl-d14	*2.94*		mg/Kg dry	4.71		62.5	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 B182924 - SW-846 3540C										
Blank (B182924-BLK1)				Prepared: 07/31/17 Analyzed: 08/02/17						
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	*0.198*		mg/Kg wet	0.200		99.2	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.176*		mg/Kg wet	0.200		88.2	30-150			
Surrogate: Tetrachloro-m-xylene	*0.179*		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.163*		mg/Kg wet	0.200		81.3	30-150			
LCS (B182924-BS1)				Prepared: 07/31/17 Analyzed: 08/02/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.0	40-140			
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		90.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		86.1	40-140			
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0	40-140			
Surrogate: Decachlorobiphenyl	*0.209*		mg/Kg wet	0.200		105	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.183*		mg/Kg wet	0.200		91.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.6	30-150			
LCS Dup (B182924-BSD1)				Prepared: 07/31/17 Analyzed: 08/02/17						
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		85.9	40-140	2.49	30	
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.9	40-140	1.01	30	
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		82.8	40-140	3.89	30	
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		81.5	40-140	2.93	30	
Surrogate: Decachlorobiphenyl	*0.200*		mg/Kg wet	0.200		100	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg wet	0.200		89.7	30-150			
Surrogate: Tetrachloro-m-xylene	*0.181*		mg/Kg wet	0.200		90.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.161*		mg/Kg wet	0.200		80.3	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182924 - SW-846 3540C										
Matrix Spike (B182924-MS1)		**Source: 17G1079-02**		Prepared: 07/31/17 Analyzed: 08/08/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.225	ND	83.0	40-140			
Aroclor-1016 [2C]	0.18	0.11	mg/Kg dry	0.225	ND	80.4	40-140			
Aroclor-1260	0.13	0.11	mg/Kg dry	0.225	ND	58.7	40-140			
Aroclor-1260 [2C]	0.15	0.11	mg/Kg dry	0.225	ND	64.7	40-140			
Surrogate: Decachlorobiphenyl	*0.133*		mg/Kg dry	0.225		58.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.143*		mg/Kg dry	0.225		63.3	30-150			
Surrogate: Tetrachloro-m-xylene	*0.143*		mg/Kg dry	0.225		63.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.148*		mg/Kg dry	0.225		65.8	30-150			
Matrix Spike Dup (B182924-MSD1)		**Source: 17G1079-02**		Prepared: 07/31/17 Analyzed: 08/08/17						
Aroclor-1016	0.19	0.11	mg/Kg dry	0.225	ND	84.6	40-140	1.86	50	
Aroclor-1016 [2C]	0.21	0.11	mg/Kg dry	0.225	ND	91.5	40-140	12.9	50	
Aroclor-1260	0.16	0.11	mg/Kg dry	0.225	ND	70.6	40-140	18.4	50	
Aroclor-1260 [2C]	0.18	0.11	mg/Kg dry	0.225	ND	78.0	40-140	18.6	50	
Surrogate: Decachlorobiphenyl	*0.167*		mg/Kg dry	0.225		73.9	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.179*		mg/Kg dry	0.225		79.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.175*		mg/Kg dry	0.225		77.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.185*		mg/Kg dry	0.225		82.3	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182909 - SW-846 3546										
Blank (B182909-BLK1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.40*		mg/Kg wet	3.33		72.1	50-150			
LCS (B182909-BS1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	24.5	10	mg/Kg wet	33.3		73.5	60-120			
Surrogate: o-Terphenyl	*2.56*		mg/Kg wet	3.33		76.8	50-150			
LCS Dup (B182909-BSD1)				Prepared: 07/31/17 Analyzed: 08/02/17						
CT ETPH	24.3	10	mg/Kg wet	33.3		72.8	60-120	1.06	30	
Surrogate: o-Terphenyl	*2.61*		mg/Kg wet	3.33		78.3	50-150			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182877 - % Solids										
Duplicate (B182877-DUP3)		**Source: 17G1079-05**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	84.6		% Wt		86.0			1.64	20	
Duplicate (B182877-DUP4)		**Source: 17G1079-06**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	67.2		% Wt		70.8			5.22	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.
RL-12	Elevated reporting limit due to matrix interference.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018

17C1079

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Fax: 413-525-6405
Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCBs	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
1	WS-AOC12E-SO-22-1B	7/25/17	14:22		X	S	V			X			
2	WS-AOC12E-SO-22-2		14:24					X					
3	WS-AOC12E-SO-22-3		14:26					X					
4	WS-AOC12E-SO-30-1		15:06					X					
5	WS-AOC12E-SO-30-2A		15:08					X					
6	WS-AOC12E-SO-30-2B		15:10						X	X			
7	WS-AOC12E-SO-30-3		15:12					X					

Comments:
WS-AOC12E-SO-30-2B (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the **Conc Code** column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] **Matrix Codes:**
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] **Preservation Codes:**
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] **Container Codes:**
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/25/17 5PM
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Table of Contents

1761079

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Doc # 381 Rev 0 5 8 2015

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028

Company Name:	Weston & Sampson Engineers
Address:	273 Dividend Rd Rcoky Hill, CT
Phone:	860 513-1473
Project Name:	English Station
Project Location:	510 Grand Ave, New Haven, CT
Project Number:	2170495
Project Manager:	Malcolm Beeler
Con-Test Bid:	
Invoice Recipient:	Malcolm Beeler (Weston & Sampson)
Sampled By:	Chris Berthiaume/Will Sirotnak

Requested Turnaround Time
7-Day ☑ 10-Day ☐
Other: 5-day ☐

Rush-Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Delivery
Format: PDF ☑ EXCEL ☑
Other:
Enhanced Data Package Required: ☐
Email To: beelerm@wseinc.com
Fax To #:

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	[1]Matrix Code	Conc Code	(Soxhlet) PCB	PAHs	ETPH	# of Containers	[2] Preservation Code	[3] Container Code
8	WS-AOC12E-SO-DUP-21A	7/25/17			X	S	U	X					
9	WS-AOC12E-SO-DUP-21B								X	X			
10	WS-AOC12E-SO-DUP-22							X					
11	WS-AOC12E-SO-DUP-23							X					
12	WS-AOC12E-SO-DUP-24							X					
13	WS-AOC12E-SO-DUP-25								X	X			

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil/Solid
SL = Sludge
O = Other (please define) _____

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

[3] Container Codes:
A = Amber Glass
G = Glass
P = Plastic
ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)	Date/Time: 7/25/17 1520
Received by: (signature)	Date/Time: 7/25/17 1520
Relinquished by: (signature)	Date/Time: 7/26/17 0900
Received by: (signature)	Date/Time: 7/25/17 1700
Relinquished by: (signature)	Date/Time:
Received by: (signature)	Date/Time:

Detection Limit Requirements
MA
CT: RES DEC
Other:

Program Information
○ MCP Analytical Certification Form Required
● RCP Analysis Certification Form Required
○ MA State DW Form Required
PWSID # _____

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

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East Longmeadow, MA. 01028
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F: 413-525-6405
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Doc# 277 Rev 5 2017

Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False

Client Weston + Sampson

Received By 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	15
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Unused Media

Vials	#	Containers:	#		#		#
Unp-		1 Liter Amb.		1 Liter Plastic		16 oz Amb.	
HCL-		500 mL Amb.		500 mL Plastic		8oz Amb/Clear	
Meoh-		250 mL Amb.		250 mL Plastic		4oz Amb/Clear	
Bisulfate-		Col./Bacteria		Flashpoint		2oz Amb/Clear	
DI-		Other Plastic		Other Glass		Encore	
Thiosulfate-		SOC Kit		Plastic Bag		Frozen:	
Sulfuric-		Perchlorate		Ziplock			

Comments:

D:\HPCHEM\1\DATA\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:\HPCHEM\1\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: 17G1079

Laboratory Sample ID(s):

17G1079-01 thru 17G1079-13

Sample Date(s):

07/25/2017

List RCP Methods Used:

CTDEP ETPH, SW-846 8082A, SW-846 8270D

1	For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents?	☑ Yes ☐ No
1A	Were the method specified preservation and holding time requirements met?	☑ Yes ☐ No
1B	VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?	☐ Yes ☐ No ☑ N/A
2	Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?	☑ Yes ☐ No
3	Were samples received at an appropriate temperature (< 6 degrees C.)?	☑ Yes ☐ No ☐ N/A
4	Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?	☐ Yes ☑ No
5A	Were reporting limits specified or referenced on the chain-of-custody?	☑ Yes ☐ No
5B	Were these reporting limits met?	☑ Yes ☐ No
6	For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?	☐ Yes ☑ No
7	Are project-specific matrix spikes and laboratory duplicates included in this data set?	☑ Yes ☐ No

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."
This form may not be altered and all questions must be answered.

I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.

Authorized Signature: Lisa Worthington **Position:** **Project Manager**

Printed Name: **Lisa A. Worthington** **Date:** **08/08/17**

Name of Laboratory: **Con-Test Analytical Laboratory**

This certification form is to be used for RCP methods only.

con-test® ANALYTICAL LABORATORY
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August 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: 17G1169

Enclosed are results of analyses for samples received by the laboratory on July 26, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

Table of Contents

Sample Summary	4
Case Narrative	6
Sample Results	7
17G1169-01	7
17G1169-02	9
17G1169-03	11
17G1169-04	13
17G1169-05	15
17G1169-06	18
17G1169-07	20
17G1169-08	22
17G1169-09	24
17G1169-10	26
17G1169-11	28
17G1169-12	30
17G1169-13	32
17G1169-14	34
17G1169-15	36
17G1169-16	38
17G1169-17	40
17G1169-18	44
17G1169-19	46
17G1169-20	48
Sample Preparation Information	50
QC Data	52

Table of Contents (continued)

Semivolatile Organic Compounds by GC/MS 52

B183204 52

Polychlorinated Biphenyls with 3540 Soxhlet Extraction 54

B183245 54

Petroleum Hydrocarbons Analyses 56

B183209 56

Metals Analyses (Total) 57

B182729 57

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) 58

B182889 58

Dual Column RPD Report 59

Flag/Qualifier Summary 64

Certifications 65

Chain of Custody/Sample Receipt 67

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/31/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1169

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12E-SO-18-1	17G1169-01	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-18-2	17G1169-02	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-18-3	17G1169-03	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-1A	17G1169-04	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-1B	17G1169-05	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 8270D	
WS-AOC12E-SO-6-2	17G1169-06	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-6-3	17G1169-07	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-1A	17G1169-08	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-1B	17G1169-09	Soil		CTDEP ETPH	
				SM 2540G	
WS-AOC12E-SO-13-2	17G1169-10	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-13-3	17G1169-11	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-1	17G1169-12	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-2	17G1169-13	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12E-SO-9-3	17G1169-14	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-1	17G1169-15	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-2A	17G1169-16	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-2B	17G1169-17	Soil		CTDEP ETPH	
				SM 2540G	
				SW-846 6010C-D	
				SW-846 8270D	
WS-AOC12W-SO-50-3	17G1169-18	Soil		SM 2540G	
				SW-846 8082A	
WS-AOC12W-SO-50-4	17G1169-19	Soil		SM 2540G	
				SW-846 8082A	

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Weston & Sampson
273 Dividend Road
Rocky Hill, CT 06067
ATTN: Malcolm Beeler

REPORT DATE: 8/31/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G1169

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
WS-AOC12W-SO-96-4	17G1169-20	Soil		SM 2540G SW-846 8082A	

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CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-1 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-01

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:26	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.6	30-150		8/4/17 18:26
Decachlorobiphenyl [2]	95.8	30-150		8/4/17 18:26
Tetrachloro-m-xylene [1]	91.1	30-150		8/4/17 18:26
Tetrachloro-m-xylene [2]	95.2	30-150		8/4/17 18:26

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-1 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-01

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-2 Sampled: 7/25/2017 15:17

Sample ID: 17G1169-02

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:38	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	78.7	30-150		8/4/17 18:38
Decachlorobiphenyl [2]	83.9	30-150		8/4/17 18:38
Tetrachloro-m-xylene [1]	81.5	30-150		8/4/17 18:38
Tetrachloro-m-xylene [2]	85.3	30-150		8/4/17 18:38

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-2 Sampled: 7/25/2017 15:17

Sample ID: 17G1169-02

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-3 Sampled: 7/25/2017 15:18

Sample ID: 17G1169-03

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 18:50	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	89.1	30-150		8/4/17 18:50
Decachlorobiphenyl [2]	88.3	30-150		8/4/17 18:50
Tetrachloro-m-xylene [1]	93.6	30-150		8/4/17 18:50
Tetrachloro-m-xylene [2]	97.5	30-150		8/4/17 18:50

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-18-3 Sampled: 7/25/2017 15:18

Sample ID: 17G1169-03

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1A Sampled: 7/25/2017 15:10

Sample ID: 17G1169-04

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:03	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	99.6	30-150		8/4/17 19:03
Decachlorobiphenyl [2]	99.0	30-150		8/4/17 19:03
Tetrachloro-m-xylene [1]	88.4	30-150		8/4/17 19:03
Tetrachloro-m-xylene [2]	91.7	30-150		8/4/17 19:03

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1A Sampled: 7/25/2017 15:10

Sample ID: 17G1169-04

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	91.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Acenaphthylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(a)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(a)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(b)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(g,h,i)perylene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Benzo(k)fluoranthene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Chrysene	0.31	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Dibenz(a,h)anthracene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Fluoranthene	0.21	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Fluorene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Indeno(1,2,3-cd)pyrene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
2-Methylnaphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Naphthalene	ND	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Phenanthrene	0.28	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL
Pyrene	1.2	0.21	mg/Kg dry	1		SW-846 8270D	8/3/17	8/4/17 18:44	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	54.0	30-130		8/4/17 18:44
2-Fluorobiphenyl	62.8	30-130		8/4/17 18:44
p-Terphenyl-d14	82.1	30-130		8/4/17 18:44

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	240	62	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/7/17 13:08	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	55.6	50-150		8/7/17 13:08

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-1B Sampled: 7/25/2017 15:12

Sample ID: 17G1169-05

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2 Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:15	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	88.6	30-150		8/4/17 19:15
Decachlorobiphenyl [2]	91.2	30-150		8/4/17 19:15
Tetrachloro-m-xylene [1]	83.5	30-150		8/4/17 19:15
Tetrachloro-m-xylene [2]	87.5	30-150		8/4/17 19:15

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2 Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-3 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-07

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:27	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	95.2	30-150		8/4/17 19:27
Decachlorobiphenyl [2]	95.0	30-150		8/4/17 19:27
Tetrachloro-m-xylene [1]	82.3	30-150		8/4/17 19:27
Tetrachloro-m-xylene [2]	85.7	30-150		8/4/17 19:27

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-3 Sampled: 7/25/2017 15:16

Sample ID: 17G1169-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1A Sampled: 7/25/2017 15:34

Sample ID: 17G1169-08

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 19:39	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	113	30-150		8/4/17 19:39
Decachlorobiphenyl [2]	109	30-150		8/4/17 19:39
Tetrachloro-m-xylene [1]	101	30-150		8/4/17 19:39
Tetrachloro-m-xylene [2]	104	30-150		8/4/17 19:39

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1A Sampled: 7/25/2017 15:34

Sample ID: 17G1169-08

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.7		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1B Sampled: 7/25/2017 15:35

Sample ID: 17G1169-09

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	67	57	mg/Kg dry	5		CTDEP ETPH	8/3/17	8/4/17 22:32	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	52.0	50-150		8/4/17 22:32

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1B Sampled: 7/25/2017 15:35

Sample ID: 17G1169-09

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-2 Sampled: 7/25/2017 15:36

Sample ID: 17G1169-10

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:28	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	101	30-150		8/4/17 20:28
Decachlorobiphenyl [2]	100	30-150		8/4/17 20:28
Tetrachloro-m-xylene [1]	77.7	30-150		8/4/17 20:28
Tetrachloro-m-xylene [2]	83.3	30-150		8/4/17 20:28

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-2 Sampled: 7/25/2017 15:36

Sample ID: 17G1169-10

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-3 Sampled: 7/25/2017 15:37

Sample ID: 17G1169-11

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:40	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/4/17 20:40
Decachlorobiphenyl [2]	99.9	30-150		8/4/17 20:40
Tetrachloro-m-xylene [1]	73.6	30-150		8/4/17 20:40
Tetrachloro-m-xylene [2]	78.2	30-150		8/4/17 20:40

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-3 Sampled: 7/25/2017 15:37

Sample ID: 17G1169-11

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.4		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-1 Sampled: 7/25/2017 15:50

Sample ID: 17G1169-12

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 20:53	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	114	30-150		8/4/17 20:53
Decachlorobiphenyl [2]	113	30-150		8/4/17 20:53
Tetrachloro-m-xylene [1]	101	30-150		8/4/17 20:53
Tetrachloro-m-xylene [2]	106	30-150		8/4/17 20:53

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-1 Sampled: 7/25/2017 15:50

Sample ID: 17G1169-12

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	97.6		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-2 Sampled: 7/25/2017 15:52

Sample ID: 17G1169-13

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:05	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	107	30-150		8/4/17 21:05
Decachlorobiphenyl [2]	101	30-150		8/4/17 21:05
Tetrachloro-m-xylene [1]	107	30-150		8/4/17 21:05
Tetrachloro-m-xylene [2]	111	30-150		8/4/17 21:05

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-2 Sampled: 7/25/2017 15:52

Sample ID: 17G1169-13

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	94.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-3 Sampled: 7/25/2017 15:54

Sample ID: 17G1169-14

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1254 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:17	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	106	30-150		8/4/17 21:17
Decachlorobiphenyl [2]	102	30-150		8/4/17 21:17
Tetrachloro-m-xylene [1]	90.3	30-150		8/4/17 21:17
Tetrachloro-m-xylene [2]	92.9	30-150		8/4/17 21:17

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-3 Sampled: 7/25/2017 15:54

Sample ID: 17G1169-14

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.3		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-1 Sampled: 7/26/2017 09:05

Sample ID: 17G1169-15

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:29	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	105	30-150		8/4/17 21:29
Decachlorobiphenyl [2]	100	30-150		8/4/17 21:29
Tetrachloro-m-xylene [1]	84.6	30-150		8/4/17 21:29
Tetrachloro-m-xylene [2]	88.6	30-150		8/4/17 21:29

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-1 Sampled: 7/26/2017 09:05

Sample ID: 17G1169-15

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	95.1		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2A Sampled: 7/26/2017 09:06

Sample ID: 17G1169-16

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:41	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	74.6	30-150		8/4/17 21:41
Decachlorobiphenyl [2]	69.4	30-150		8/4/17 21:41
Tetrachloro-m-xylene [1]	71.5	30-150		8/4/17 21:41
Tetrachloro-m-xylene [2]	75.4	30-150		8/4/17 21:41

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2A Sampled: 7/26/2017 09:06

Sample ID: 17G1169-16

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Semivolatile Organic Compounds by GC/MS

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Acenaphthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Acenaphthylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(a)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(a)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(b)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(g,h,i)perylene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Benzo(k)fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Chrysene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Dibenz(a,h)anthracene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Fluoranthene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Fluorene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Indeno(1,2,3-cd)pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
2-Methylnaphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Naphthalene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Phenanthrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL
Pyrene	ND	0.18	mg/Kg dry	1		SW-846 8270D	8/3/17	8/5/17 14:46	BGL

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Nitrobenzene-d5	50.4	30-130		8/5/17 14:46
2-Fluorobiphenyl	55.6	30-130		8/5/17 14:46
p-Terphenyl-d14	74.4	30-130		8/5/17 14:46

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Petroleum Hydrocarbons Analyses

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
CT ETPH	18	10	mg/Kg dry	1		CTDEP ETPH	8/3/17	8/4/17 23:43	SCS

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
o-Terphenyl	72.6	50-150		8/4/17 23:43

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Metals Analyses (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Arsenic	ND	2.6	mg/Kg dry	1		SW-846 6010C-D	7/27/17	7/31/17 14:55	QNW

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-2B Sampled: 7/26/2017 09:07

Sample ID: 17G1169-17

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.4		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-3 Sampled: 7/26/2017 09:08

Sample ID: 17G1169-18

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1260 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 21:54	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	121	30-150		8/4/17 21:54
Decachlorobiphenyl [2]	112	30-150		8/4/17 21:54
Tetrachloro-m-xylene [1]	96.4	30-150		8/4/17 21:54
Tetrachloro-m-xylene [2]	98.8	30-150		8/4/17 21:54

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-3 Sampled: 7/26/2017 09:08

Sample ID: 17G1169-18

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	96.8		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4 Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:06	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	111	30-150		8/4/17 22:06
Decachlorobiphenyl [2]	103	30-150		8/4/17 22:06
Tetrachloro-m-xylene [1]	85.4	30-150		8/4/17 22:06
Tetrachloro-m-xylene [2]	87.8	30-150		8/4/17 22:06

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4 Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-96-4 Sampled: 7/26/2017 09:20

Sample ID: 17G1169-20

Sample Matrix: Soil

Polychlorinated Biphenyls with 3540 Soxhlet Extraction

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1260 [2]	0.17	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	8/3/17	8/4/17 22:18	JMB

Surrogates	% Recovery	Recovery Limits	Flag/Qual	
Decachlorobiphenyl [1]	97.8	30-150		8/4/17 22:18
Decachlorobiphenyl [2]	104	30-150		8/4/17 22:18
Tetrachloro-m-xylene [1]	88.2	30-150		8/4/17 22:18
Tetrachloro-m-xylene [2]	92.4	30-150		8/4/17 22:18

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-96-4 Sampled: 7/26/2017 09:20

Sample ID: 17G1169-20

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.0		% Wt	1		SM 2540G	7/31/17	8/1/17 8:48	MRL

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Sample Extraction Data

Prep Method: SW-846 3546-CTDEP ETPH

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-05 [WS-AOC12E-SO-6-1B]	B183209	30.0	1.00	08/03/17
17G1169-09 [WS-AOC12E-SO-13-1B]	B183209	30.0	1.00	08/03/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B183209	30.0	1.00	08/03/17

Prep Method: % Solids-SM 2540G

Lab Number [Field ID]	Batch	Date
17G1169-01 [WS-AOC12E-SO-18-1]	B182889	07/31/17
17G1169-02 [WS-AOC12E-SO-18-2]	B182889	07/31/17
17G1169-03 [WS-AOC12E-SO-18-3]	B182889	07/31/17
17G1169-04 [WS-AOC12E-SO-6-1A]	B182889	07/31/17
17G1169-05 [WS-AOC12E-SO-6-1B]	B182889	07/31/17
17G1169-06 [WS-AOC12E-SO-6-2]	B182889	07/31/17
17G1169-07 [WS-AOC12E-SO-6-3]	B182889	07/31/17
17G1169-08 [WS-AOC12E-SO-13-1A]	B182889	07/31/17
17G1169-09 [WS-AOC12E-SO-13-1B]	B182889	07/31/17
17G1169-10 [WS-AOC12E-SO-13-2]	B182889	07/31/17
17G1169-11 [WS-AOC12E-SO-13-3]	B182889	07/31/17
17G1169-12 [WS-AOC12E-SO-9-1]	B182889	07/31/17
17G1169-13 [WS-AOC12E-SO-9-2]	B182889	07/31/17
17G1169-14 [WS-AOC12E-SO-9-3]	B182889	07/31/17
17G1169-15 [WS-AOC12W-SO-50-1]	B182889	07/31/17
17G1169-16 [WS-AOC12W-SO-50-2A]	B182889	07/31/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B182889	07/31/17
17G1169-18 [WS-AOC12W-SO-50-3]	B182889	07/31/17
17G1169-19 [WS-AOC12W-SO-50-4]	B182889	07/31/17
17G1169-20 [WS-AOC12W-SO-96-4]	B182889	07/31/17

Prep Method: SW-846 3050B-SW-846 6010C-D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-17 [WS-AOC12W-SO-50-2B]	B182729	1.01	50.0	07/27/17

Prep Method: SW-846 3540C-SW-846 8082A

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-01 [WS-AOC12E-SO-18-1]	B183245	10.0	10.0	08/03/17
17G1169-02 [WS-AOC12E-SO-18-2]	B183245	10.0	10.0	08/03/17
17G1169-03 [WS-AOC12E-SO-18-3]	B183245	10.0	10.0	08/03/17
17G1169-04 [WS-AOC12E-SO-6-1A]	B183245	10.0	10.0	08/03/17
17G1169-06 [WS-AOC12E-SO-6-2]	B183245	10.0	10.0	08/03/17
17G1169-07 [WS-AOC12E-SO-6-3]	B183245	10.0	10.0	08/03/17
17G1169-08 [WS-AOC12E-SO-13-1A]	B183245	10.0	10.0	08/03/17
17G1169-10 [WS-AOC12E-SO-13-2]	B183245	10.0	10.0	08/03/17
17G1169-11 [WS-AOC12E-SO-13-3]	B183245	10.0	10.0	08/03/17
17G1169-12 [WS-AOC12E-SO-9-1]	B183245	10.0	10.0	08/03/17
17G1169-13 [WS-AOC12E-SO-9-2]	B183245	10.0	10.0	08/03/17
17G1169-14 [WS-AOC12E-SO-9-3]	B183245	10.0	10.0	08/03/17
17G1169-15 [WS-AOC12W-SO-50-1]	B183245	10.0	10.0	08/03/17
17G1169-16 [WS-AOC12W-SO-50-2A]	B183245	10.0	10.0	08/03/17
17G1169-18 [WS-AOC12W-SO-50-3]	B183245	10.0	10.0	08/03/17

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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
17G1169-19 [WS-AOC12W-SO-50-4]	B183245	10.0	10.0	08/03/17
17G1169-20 [WS-AOC12W-SO-96-4]	B183245	10.0	10.0	08/03/17

Prep Method: SW-846 3546-SW-846 8270D

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17G1169-05 [WS-AOC12E-SO-6-1B]	B183204	30.0	1.00	08/03/17
17G1169-17 [WS-AOC12W-SO-50-2B]	B183204	30.0	1.00	08/03/17

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
Blank (B183204-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	ND	0.17	mg/Kg wet							
Acenaphthylene	ND	0.17	mg/Kg wet							
Anthracene	ND	0.17	mg/Kg wet							
Benzo(a)anthracene	ND	0.17	mg/Kg wet							
Benzo(a)pyrene	ND	0.17	mg/Kg wet							
Benzo(b)fluoranthene	ND	0.17	mg/Kg wet							
Benzo(g,h,i)perylene	ND	0.17	mg/Kg wet							
Benzo(k)fluoranthene	ND	0.17	mg/Kg wet							
Chrysene	ND	0.17	mg/Kg wet							
Dibenz(a,h)anthracene	ND	0.17	mg/Kg wet							
Fluoranthene	ND	0.17	mg/Kg wet							
Fluorene	ND	0.17	mg/Kg wet							
Indeno(1,2,3-cd)pyrene	ND	0.17	mg/Kg wet							
2-Methylnaphthalene	ND	0.17	mg/Kg wet							
Naphthalene	ND	0.17	mg/Kg wet							
Phenanthrene	ND	0.17	mg/Kg wet							
Pyrene	ND	0.17	mg/Kg wet							
Surrogate: Nitrobenzene-d5	*2.14*		mg/Kg wet	3.33		64.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.15*		mg/Kg wet	3.33		64.4	30-130			
Surrogate: p-Terphenyl-d14	*2.52*		mg/Kg wet	3.33		75.7	30-130			
LCS (B183204-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.09	0.17	mg/Kg wet	1.67		65.6	40-140			
Acenaphthylene	1.11	0.17	mg/Kg wet	1.67		66.5	40-140			
Anthracene	1.08	0.17	mg/Kg wet	1.67		64.8	40-140			
Benzo(a)anthracene	1.13	0.17	mg/Kg wet	1.67		67.8	40-140			
Benzo(a)pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Benzo(b)fluoranthene	1.10	0.17	mg/Kg wet	1.67		66.2	40-140			
Benzo(g,h,i)perylene	0.934	0.17	mg/Kg wet	1.67		56.0	40-140			
Benzo(k)fluoranthene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140			
Chrysene	1.08	0.17	mg/Kg wet	1.67		65.0	40-140			
Dibenz(a,h)anthracene	0.917	0.17	mg/Kg wet	1.67		55.0	40-140			
Fluoranthene	1.03	0.17	mg/Kg wet	1.67		62.0	40-140			
Fluorene	1.13	0.17	mg/Kg wet	1.67		67.9	40-140			
Indeno(1,2,3-cd)pyrene	0.941	0.17	mg/Kg wet	1.67		56.5	40-140			
2-Methylnaphthalene	1.19	0.17	mg/Kg wet	1.67		71.6	40-140			
Naphthalene	1.11	0.17	mg/Kg wet	1.67		66.6	40-140			
Phenanthrene	1.09	0.17	mg/Kg wet	1.67		65.4	40-140			
Pyrene	1.14	0.17	mg/Kg wet	1.67		68.2	40-140			
Surrogate: Nitrobenzene-d5	*2.64*		mg/Kg wet	3.33		79.3	30-130			
Surrogate: 2-Fluorobiphenyl	*2.63*		mg/Kg wet	3.33		78.9	30-130			
Surrogate: p-Terphenyl-d14	*2.55*		mg/Kg wet	3.33		76.5	30-130			

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QUALITY CONTROL

Semivolatile Organic Compounds by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183204 - SW-846 3546										
LCS Dup (B183204-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Acenaphthene	1.00	0.17	mg/Kg wet	1.67		60.3	40-140	8.39	30	
Acenaphthylene	1.00	0.17	mg/Kg wet	1.67		60.1	40-140	10.1	30	
Anthracene	1.01	0.17	mg/Kg wet	1.67		60.9	40-140	6.27	30	
Benzo(a)anthracene	1.06	0.17	mg/Kg wet	1.67		63.5	40-140	6.55	30	
Benzo(a)pyrene	1.09	0.17	mg/Kg wet	1.67		65.5	40-140	4.07	30	
Benzo(b)fluoranthene	1.04	0.17	mg/Kg wet	1.67		62.6	40-140	5.53	30	
Benzo(g,h,i)perylene	0.891	0.17	mg/Kg wet	1.67		53.5	40-140	4.68	30	
Benzo(k)fluoranthene	1.06	0.17	mg/Kg wet	1.67		63.8	40-140	2.69	30	
Chrysene	1.02	0.17	mg/Kg wet	1.67		61.5	40-140	5.47	30	
Dibenz(a,h)anthracene	0.882	0.17	mg/Kg wet	1.67		52.9	40-140	3.89	30	
Fluoranthene	0.965	0.17	mg/Kg wet	1.67		57.9	40-140	6.90	30	
Fluorene	1.01	0.17	mg/Kg wet	1.67		60.8	40-140	11.1	30	
Indeno(1,2,3-cd)pyrene	0.869	0.17	mg/Kg wet	1.67		52.1	40-140	7.96	30	
2-Methylnaphthalene	1.04	0.17	mg/Kg wet	1.67		62.7	40-140	13.3	30	
Naphthalene	0.964	0.17	mg/Kg wet	1.67		57.8	40-140	14.1	30	
Phenanthrene	1.01	0.17	mg/Kg wet	1.67		60.7	40-140	7.46	30	
Pyrene	1.07	0.17	mg/Kg wet	1.67		64.0	40-140	6.35	30	
Surrogate: Nitrobenzene-d5	*2.27*		mg/Kg wet	3.33		68.2	30-130			
Surrogate: 2-Fluorobiphenyl	*2.38*		mg/Kg wet	3.33		71.4	30-130			
Surrogate: p-Terphenyl-d14	*2.40*		mg/Kg wet	3.33		72.1	30-130			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183245 - SW-846 3540C										
Blank (B183245-BLK1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	*0.238*		mg/Kg wet	0.200		119	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.215*		mg/Kg wet	0.200		108	30-150			
Surrogate: Tetrachloro-m-xylene	*0.184*		mg/Kg wet	0.200		92.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.184*		mg/Kg wet	0.200		92.0	30-150			
LCS (B183245-BS1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		92.5	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.8	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		85.4	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		82.3	40-140			
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg wet	0.200		110	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.199*		mg/Kg wet	0.200		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	*0.163*		mg/Kg wet	0.200		81.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.162*		mg/Kg wet	0.200		81.2	30-150			
LCS Dup (B183245-BSD1)				Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.1	40-140	4.84	30	
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		98.2	40-140	15.8	30	
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		95.5	40-140	11.2	30	
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		92.5	40-140	11.7	30	
Surrogate: Decachlorobiphenyl	*0.248*		mg/Kg wet	0.200		124	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.224*		mg/Kg wet	0.200		112	30-150			
Surrogate: Tetrachloro-m-xylene	*0.190*		mg/Kg wet	0.200		94.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.187*		mg/Kg wet	0.200		93.4	30-150			

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QUALITY CONTROL

Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183245 - SW-846 3540C										
Matrix Spike (B183245-MS1)		**Source: 17G1169-20**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.21	0.11	mg/Kg dry	0.230	ND	91.7	40-140			
Aroclor-1016 [2C]	0.22	0.11	mg/Kg dry	0.230	ND	96.9	40-140			
Aroclor-1260	0.35	0.11	mg/Kg dry	0.230	0.16	82.4	40-140			
Aroclor-1260 [2C]	0.37	0.11	mg/Kg dry	0.230	0.17	83.8	40-140			
Surrogate: Decachlorobiphenyl	*0.226*		mg/Kg dry	0.230		98.1	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.236*		mg/Kg dry	0.230		102	30-150			
Surrogate: Tetrachloro-m-xylene	*0.209*		mg/Kg dry	0.230		91.0	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.219*		mg/Kg dry	0.230		95.3	30-150			
Matrix Spike Dup (B183245-MSD1)		**Source: 17G1169-20**		Prepared: 08/03/17 Analyzed: 08/04/17						
Aroclor-1016	0.26	0.11	mg/Kg dry	0.230	ND	111	40-140	19.1	50	
Aroclor-1016 [2C]	0.24	0.11	mg/Kg dry	0.230	ND	103	40-140	6.23	50	
Aroclor-1260	0.36	0.11	mg/Kg dry	0.230	0.16	87.5	40-140	3.23	50	
Aroclor-1260 [2C]	0.37	0.11	mg/Kg dry	0.230	0.17	85.3	40-140	0.945	50	
Surrogate: Decachlorobiphenyl	*0.221*		mg/Kg dry	0.230		96.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	*0.240*		mg/Kg dry	0.230		104	30-150			
Surrogate: Tetrachloro-m-xylene	*0.204*		mg/Kg dry	0.230		88.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	*0.212*		mg/Kg dry	0.230		92.2	30-150			

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QUALITY CONTROL

Petroleum Hydrocarbons Analyses - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B183209 - SW-846 3546										
Blank (B183209-BLK1)				Prepared & Analyzed: 08/03/17						
CT ETPH	ND	10	mg/Kg wet							
Surrogate: o-Terphenyl	*2.17*		mg/Kg wet	3.33		65.2	50-150			
LCS (B183209-BS1)				Prepared & Analyzed: 08/03/17						
CT ETPH	21.7	10	mg/Kg wet	33.3		65.2	60-120			
Surrogate: o-Terphenyl	*2.25*		mg/Kg wet	3.33		67.5	50-150			
LCS Dup (B183209-BSD1)				Prepared & Analyzed: 08/03/17						
CT ETPH	22.9	10	mg/Kg wet	33.3		68.8	60-120	5.37	30	
Surrogate: o-Terphenyl	*2.32*		mg/Kg wet	3.33		69.5	50-150			

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QUALITY CONTROL

Metals Analyses (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182729 - SW-846 3050B										
Blank (B182729-BLK1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Arsenic	ND	2.5	mg/Kg wet							
LCS (B182729-BS1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Arsenic	57.7	5.0	mg/Kg wet	57.0		101	77.8-122.1			
LCS Dup (B182729-BSD1)				Prepared: 07/27/17 Analyzed: 07/31/17						
Arsenic	55.6	5.0	mg/Kg wet	57.0		97.5	77.8-122.1	3.70	30	
Duplicate (B182729-DUP1)	**Source: 17G1169-17**			Prepared: 07/27/17 Analyzed: 07/31/17						
Arsenic	ND	2.6	mg/Kg dry		ND			NC	35	
Matrix Spike (B182729-MS1)	**Source: 17G1169-17**			Prepared: 07/27/17 Analyzed: 07/31/17						
Arsenic	24.0	2.5	mg/Kg dry	25.4	ND	94.4	75-125			

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QUALITY CONTROL

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B182889 - % Solids										
Duplicate (B182889-DUP5)		**Source: 17G1169-20**		Prepared: 07/31/17 Analyzed: 08/01/17						
% Solids	88.2		% Wt		87.0			1.37	20	

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

WS-AOC12W-SO-96-4

Lab Sample ID: 17G1169-20

Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.16	
	2	0.000	-0.030	0.030	0.17	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS

Lab Sample ID: B183245-BS1

Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.17	11.1
Aroclor-1260	1	0.000	-0.030	0.030	0.17	
	2	0.000	-0.030	0.030	0.16	6.1

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LCS Dup

Lab Sample ID: B183245-BSD1 Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.20	5.1
Aroclor-1260	1	0.000	-0.030	0.030	0.19	
	2	0.000	-0.030	0.030	0.19	0.0

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike

Lab Sample ID: B183245-MS1 Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.22	4.7
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.37	5.6

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IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

Matrix Spike Dup

Lab Sample ID: B183245-MSD1 Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1016	1	0.000	-0.030	0.030	0.26	
	2	0.000	-0.030	0.030	0.24	8.0
Aroclor-1260	1	0.000	-0.030	0.030	0.36	
	2	0.000	-0.030	0.030	0.37	2.7

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FLAG/QUALIFIER SUMMARY

*	QC result is outside of established limits.
†	Wide recovery limits established for difficult compound.
‡	Wide RPD limits established for difficult compound.
#	Data exceeded client recommended or regulatory level
ND	Not Detected
RL	Reporting Limit
DL	Method Detection Limit
MCL	Maximum Contaminant Level

Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.

No results have been blank subtracted unless specified in the case narrative section.

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
CTDEP ETPH in Soil	
CT ETPH	CT
SW-846 6010C-D in Soil	
Arsenic	CT,NH,NY,ME,VA,NC
SW-846 8082A in Soil	
Aroclor-1016	CT,NH,NY,ME,NC,VA
Aroclor-1016 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1221	CT,NH,NY,ME,NC,VA
Aroclor-1221 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1232	CT,NH,NY,ME,NC,VA
Aroclor-1232 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1242	CT,NH,NY,ME,NC,VA
Aroclor-1242 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1248	CT,NH,NY,ME,NC,VA
Aroclor-1248 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1254	CT,NH,NY,ME,NC,VA
Aroclor-1254 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1260	CT,NH,NY,ME,NC,VA
Aroclor-1260 [2C]	CT,NH,NY,ME,NC,VA
Aroclor-1262	NY,NC,VA
Aroclor-1262 [2C]	NY,NC,VA
Aroclor-1268	NY,NC,VA
Aroclor-1268 [2C]	NY,NC,VA
SW-846 8270D in Soil	
Acenaphthene	CT,NY,NH,ME,NC,VA
Acenaphthylene	CT,NY,NH,ME,NC,VA
Anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)anthracene	CT,NY,NH,ME,NC,VA
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA
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

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CERTIFICATIONS

Certified Analyses included in this Report

Analyte	Certifications
SW-846 8270D in Water	
Benzo(a)pyrene	CT,NY,NH,ME,NC,VA
Benzo(b)fluoranthene	CT,NY,NH,ME,NC,VA
Benzo(g,h,i)perylene	CT,NY,NH,ME,NC,VA
Benzo(k)fluoranthene	CT,NY,NH,ME,NC,VA
Chrysene	CT,NY,NH,ME,NC,VA
Dibenz(a,h)anthracene	CT,NY,NH,ME,NC,VA
Fluoranthene	CT,NY,NH,ME,NC,VA
Fluorene	CT,NY,NH,ME,NC,VA
Indeno(1,2,3-cd)pyrene	CT,NY,NH,ME,NC,VA
2-Methylnaphthalene	CT,NY,NH,ME,NC,VA
Naphthalene	CT,NY,NH,ME,NC,VA
Phenanthrene	CT,NY,NH,ME,NC,VA
Pyrene	CT,NY,NH,ME,NC,VA

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2018
CT	Connecticut Department of Publilc Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2018
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2018
RI	Rhode Island Department of Health	LAO00112	12/30/2017
NC	North Carolina Div. of Water Quality	652	12/31/2017
NJ	New Jersey DEP	MA007 NELAP	06/30/2018
FL	Florida Department of Health	E871027 NELAP	06/30/2018
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2018
ME	State of Maine	2011028	06/9/2019
VA	Commonwealth of Virginia	460217	12/14/2017
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2017
VT-DW	Vermont Department of Health Drinking Water	VT-255716	06/12/2018
NC-DW	North Carolina Department of Health	25703	07/31/2018