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

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/9/2017

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 | |

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: 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<br>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, 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

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: 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 |

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: 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 |

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: 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 |

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: 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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39 Spruce Street * 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-44-3**  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 |

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: 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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39 Spruce Street * 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-47-1** 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 |

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: 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 |

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: 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 |

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: 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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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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39 Spruce Street * 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

**Conventional 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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39 Spruce Street * 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

**Conventional 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 |

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: 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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39 Spruce Street * 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-19-1B**  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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39 Spruce Street * 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-19-1B** 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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-19-3** 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 |

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: 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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-20-2** 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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39 Spruce Street * 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-20-2** 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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-40-1A** 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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39 Spruce Street * 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-40-1A** 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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39 Spruce Street * 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

**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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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 |
|---|---|---|---|---|
| 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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**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 |

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

1791074

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-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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17G1074

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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 |
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| Project Number: | 2170495 |
| Project Manager: | Malcolm Beeler |
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| Sampled By: | Chris Berthiaume/Will Sirotnak |

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7-Day ☑ 10-Day ☐
Other: 5-day ☐

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

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

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | (Soxhlet) 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
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ST = Sterile
V = Vial
S = Summa Canister
T = Tedlar Bag
O = Other (please define) _____

Comments:

Please hold excess volumes for possible SPLP analyses.

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

| | |
|---|---|
| Relinquished by: (signature) | Date/Time: 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 1200 |
| 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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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\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

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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: 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 |

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

**Conventional 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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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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39 Spruce Street * 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-38-2** 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 |

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-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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39 Spruce Street * 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-38-3** 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 |

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-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 |

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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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-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 |

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 |
|---|---|---|---|---|
| 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 |

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-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 |

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 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 |

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 |

1761075

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-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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Phone: 413-525-2332
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Email: info@contestlabs.com
39 Spruce Street
East Longmeadow, MA 01028

# CHAIN OF CUSTODY RECORD



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

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

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

| | |
|---|---|
| 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 |

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston + Sampson

**Received By** JM Date 7/25/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.2, 2.4
By Blank # ___ Actual Temp - ___

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

| Vials | # | Containers: | # | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | 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

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| 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 |
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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/8/2017

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 | |

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-22-1A | 17G1077-20 | Soil | | SM 2540G<br>SW-846 8082A | |

con-test® ANALYTICAL LABORATORY

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**CASE NARRATIVE SUMMARY**

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

For method 8270, only PAHs were requested and reported.

**CTDEP ETPH**

**Qualifications:**

**S-01**

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

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

**o-Terphenyl**

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

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: 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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39 Spruce Street * 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

**Conventional 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 |

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: 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 |

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: 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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39 Spruce Street * 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-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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39 Spruce Street * 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-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 |

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: 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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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

**Polychlorinated 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 |

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: 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 |

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: 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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39 Spruce Street * 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-8-1B**  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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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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39 Spruce Street * 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

**Conventional 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 |

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39 Spruce Street * 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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-26-1B** 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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39 Spruce Street * 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-26-1B**  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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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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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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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

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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 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 | | 13:56 | | | | | | 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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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 1500 |
| 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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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

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/8/2017

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

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 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 |

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

**Conventional 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 |

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-22-2** 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 |

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-22-2** 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 |

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-22-3** 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 |

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-22-3** 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 |

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-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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39 Spruce Street * 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-30-1** 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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39 Spruce Street * 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

**Polychlorinated 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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39 Spruce Street * 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

**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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39 Spruce Street * 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

**Conventional 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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39 Spruce Street * 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-30-3**  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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39 Spruce Street * 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-30-3** 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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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39 Spruce Street * 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-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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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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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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## 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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**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

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-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 | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |

**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-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**

| | |
|---|---|
| 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



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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
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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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 0940 |
| 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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F: 413-525-6405
www.contestlabs.com

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston + Sampson

**Received By** JM Date 7/25/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.2, 2.4
By Blank # ___ Actual Temp - ___

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

| Vials | # | Containers: | # | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | 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
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

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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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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<br>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: 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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39 Spruce Street * 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-18-2** Sampled: 7/25/2017 15:17

**Sample ID: 17G1169-02**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 74.6 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-03**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1248 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1254 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:50 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-03**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 80.9 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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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 |

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-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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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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39 Spruce Street * 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

**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 |

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-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 |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-07**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1248 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1254 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-07**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 80.8 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-08**

Sample Matrix: Soil

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

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-2** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-2** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-3** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-3** 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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39 Spruce Street * 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-9-1** 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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39 Spruce Street * 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-9-1** 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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39 Spruce Street * 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-9-2** 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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39 Spruce Street * 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-9-2** Sampled: 7/25/2017 15:52

**Sample ID: 17G1169-13**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.0 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-14**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1254 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1260 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-14**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 76.3 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-15**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |

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

39 Spruce Street * 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 | |

con-test® ANALYTICAL LABORATORY

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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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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 |
| ***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 |

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

17C-1169

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

# CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



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

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

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

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

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | (Soxhlet) PCBs | PAHs | ETPH | # of Containers | [2] Preservation Code | [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | WS-AOCIZE-SO-18-1 | 7/25/17 | 15:16 | | X | S | U | X | | | | | |
| 02 | WS-AOCIZE-SO-18-2 | ↓ | 15:17 | | ↓ | ↓ | ↓ | X | | | | | |
| 03 | WS-AOCIZE-SO-18-3 | | 15:18 | | | | | X | | | | | |
| 04 | WS-AOCIZE-SO-6-1A | | 15:10 | | | | | X | | | | | |
| 05 | WS-AOCIZE-SO-6-1B | | 15:12 | | | | | | X | X | | | |
| 06 | WS-AOCIZE-SO-6-2 | | 15:14 | | | | | X | | | | | |
| 07 | WS-AOCIZE-SO-6-3 | | 15:16 | | | | | X | | | | | |
| 08 | WS-AOCIZE-SO-13-1A | | 15:34 | | | | | X | | | | | |
| 09 | WS-AOCIZE-SO-13-1B | | 15:35 | | | | | | | X | | | |
| 10 | WS-AOCIZE-SO-13-2 | ↓ | 15:36 | | ↓ | ↓ | ↓ | X | | | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

**Detection Limit Requirements**
MA
CT RES DEC
Other

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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17G1169

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

**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-97-4 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

| Relinquished by: (signature) | Date/Time: |
|---|---|
| [signature] | 7/26/17 1530 |
| Received by: (signature) | Date/Time: |
| [signature] | 7/26/17 15:3 |
| Relinquished by: (signature) | Date/Time: |
| [signature] | 7/26/17 17:03 |
| Received by: (signature) | Date/Time: |
| [signature] | 7/26/17 1703 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** BLF Date 7/26/17 Time 1703

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

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

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

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

**Unused Media**

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

**Comments:**

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

D:\HPCHEM\1\DATA\A080717.SEC\A0807007.D

## CT ETPH DISCRIMINATION CHECK

| | |
|---|---|
| Date Acquired | 8/7/17 |
| Data File Name | A0807007.D |
| Sample Name | ETPH 1500 |
| Instrument Name | 5890DFID |

| Compound | Ret Time | Target Response | Average Response | *%D +/- 20 |
|---|---|---|---|---|
| c - 9 | 1.28 | 567269 | 616507 | -8 |
| c - 10 | 1.63 | 582026 | 616507 | -6 |
| c - 12 | 2.35 | 602280 | 616507 | -2 |
| c - 14 | 3.01 | 616087 | 616507 | 0 |
| c - 16 | 3.62 | 632696 | 616507 | 3 |
| c - 18 | 4.23 | 627640 | 616507 | 2 |
| o-Terphenyl | 4.52 | 702616 | 616507 | |
| c - 20 | 4.84 | 638720 | 616507 | 4 |
| c - 22 | 5.34 | 651603 | 616507 | 6 |
| c - 24 | 5.78 | 609664 | 616507 | -1 |
| c - 26 | 6.17 | 643711 | 616507 | 4 |
| c - 28 | 6.53 | 633637 | 616507 | 3 |
| c - 30 | 6.86 | 630017 | 616507 | 2 |
| c - 32 | 7.17 | 609518 | 616507 | -1 |
| c - 34 | 7.46 | 605031 | 616507 | -2 |
| c - 36 | 7.78 | 597714 | 616507 | -3 |

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17G1169

***Laboratory Sample ID(s):***

17G1169-01 thru 17G1169-20

***Sample Date(s):***

07/25/2017,
07/26/2017

*List RCP Methods Used:*

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

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

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

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

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

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

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

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

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

August 7, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1169

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

Sincerely,

James M. Georgantas
Project Manager

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con-test® ANALYTICAL LABORATORY

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

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

REPORT DATE: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 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 | |

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

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

REPORT DATE: 8/7/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17G1169

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

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

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| WS-AOC12W-SO-96-4 | 17G1169-20 | Soil | | SM 2540G<br>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 and Pb were requested and reported.

For method 8270, only PAHs were requested and reported.

**SW-846 6010C-D**

**Qualifications:**

**M-10**

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

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

**Lead**

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

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

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-01**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 18:26 | JMB |

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

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

**Conventional 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 |

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-18-2** 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 |

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-18-2** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-03**

Sample Matrix: Soil

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-04**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:03 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-04**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.6 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-06**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 84.7 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-07**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1221 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1232 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1242 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1248 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1254 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1260 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1262 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |
| Aroclor-1268 [1] | ND | 0.12 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 19:27 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-07**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 80.8 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-2** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-2** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-3** 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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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

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

Date Received: 7/26/2017

**Field Sample #: WS-AOC12E-SO-13-3** 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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39 Spruce Street * 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-9-1** 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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39 Spruce Street * 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-9-1** 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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39 Spruce Street * 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-9-2** Sampled: 7/25/2017 15:52

**Sample ID: 17G1169-13**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.0 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-14**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1221 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1232 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1242 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1248 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1254 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1260 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1262 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |
| Aroclor-1268 [1] | ND | 0.13 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:17 | JMB |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-14**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 76.3 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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39 Spruce Street * 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

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:29 | JMB |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-15**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 95.1 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-16**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:41 | JMB |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-16**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 96.8 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-17**

Sample Matrix: Soil

**Semivolatile Organic Compounds by GC/MS**

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

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-17**

Sample Matrix: Soil

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-17**

Sample Matrix: Soil

**Metals Analyses (Total)**

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-17**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 96.4 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-18**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 21:54 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-18**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 96.8 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-19**

Sample Matrix: Soil

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-19**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 81.9 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-20**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1260 [2] | 0.17 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/3/17 | 8/4/17 22:18 | JMB |

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

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

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

Date Received: 7/26/2017

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

**Sample ID: 17G1169-20**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 87.0 | | % Wt | 1 | | SM 2540G | 7/31/17 | 8/1/17 8:48 | MRL |

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## Sample Extraction Data

**Prep Method: SW-846 3546-CTDEP ETPH**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17G1169-05 [WS-AOC12E-SO-6-1B] | B183209 | 30.0 | 1.00 | 08/03/17 |
| 17G1169-09 [WS-AOC12E-SO-13-1B] | B183209 | 30.0 | 1.00 | 08/03/17 |
| 17G1169-17 [WS-AOC12W-SO-50-2B] | B183209 | 30.0 | 1.00 | 08/03/17 |

**Prep Method: % Solids-SM 2540G**

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

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

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

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

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

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

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

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## Sample Extraction Data

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

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

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

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

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

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

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

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

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183245 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183245-BLK1)** | | | | Prepared: 08/03/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.238* | | mg/Kg wet | 0.200 | | 119 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.215* | | mg/Kg wet | 0.200 | | 108 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.184* | | mg/Kg wet | 0.200 | | 92.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.184* | | mg/Kg wet | 0.200 | | 92.0 | 30-150 | | | |
| **LCS (B183245-BS1)** | | | | Prepared: 08/03/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 92.5 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 83.8 | 40-140 | | | |
| Aroclor-1260 | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 85.4 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 82.3 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.221* | | mg/Kg wet | 0.200 | | 110 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.199* | | mg/Kg wet | 0.200 | | 99.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.163* | | mg/Kg wet | 0.200 | | 81.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.162* | | mg/Kg wet | 0.200 | | 81.2 | 30-150 | | | |
| **LCS Dup (B183245-BSD1)** | | | | Prepared: 08/03/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 97.1 | 40-140 | 4.84 | 30 | |
| Aroclor-1016 [2C] | 0.20 | 0.020 | mg/Kg wet | 0.200 | | 98.2 | 40-140 | 15.8 | 30 | |
| Aroclor-1260 | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 95.5 | 40-140 | 11.2 | 30 | |
| Aroclor-1260 [2C] | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 92.5 | 40-140 | 11.7 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.248* | | mg/Kg wet | 0.200 | | 124 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.224* | | mg/Kg wet | 0.200 | | 112 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.190* | | mg/Kg wet | 0.200 | | 94.9 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.187* | | mg/Kg wet | 0.200 | | 93.4 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183245 - SW-846 3540C** | | | | | | | | | | |
| **Matrix Spike (B183245-MS1)** | | **Source: 17G1169-20** | | Prepared: 08/03/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.21 | 0.11 | mg/Kg dry | 0.230 | ND | 91.7 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.22 | 0.11 | mg/Kg dry | 0.230 | ND | 96.9 | 40-140 | | | |
| Aroclor-1260 | 0.35 | 0.11 | mg/Kg dry | 0.230 | 0.16 | 82.4 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.37 | 0.11 | mg/Kg dry | 0.230 | 0.17 | 83.8 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.226* | | mg/Kg dry | 0.230 | | 98.1 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.236* | | mg/Kg dry | 0.230 | | 102 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.209* | | mg/Kg dry | 0.230 | | 91.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.219* | | mg/Kg dry | 0.230 | | 95.3 | 30-150 | | | |
| **Matrix Spike Dup (B183245-MSD1)** | | **Source: 17G1169-20** | | Prepared: 08/03/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.26 | 0.11 | mg/Kg dry | 0.230 | ND | 111 | 40-140 | 19.1 | 50 | |
| Aroclor-1016 [2C] | 0.24 | 0.11 | mg/Kg dry | 0.230 | ND | 103 | 40-140 | 6.23 | 50 | |
| Aroclor-1260 | 0.36 | 0.11 | mg/Kg dry | 0.230 | 0.16 | 87.5 | 40-140 | 3.23 | 50 | |
| Aroclor-1260 [2C] | 0.37 | 0.11 | mg/Kg dry | 0.230 | 0.17 | 85.3 | 40-140 | 0.945 | 50 | |
| Surrogate: Decachlorobiphenyl | *0.221* | | mg/Kg dry | 0.230 | | 96.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.240* | | mg/Kg dry | 0.230 | | 104 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.204* | | mg/Kg dry | 0.230 | | 88.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.212* | | mg/Kg dry | 0.230 | | 92.2 | 30-150 | | | |

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**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183209 - SW-846 3546** | | | | | | | | | | |
| **Blank (B183209-BLK1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| CT ETPH | ND | 10 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | *2.17* | | mg/Kg wet | 3.33 | | 65.2 | 50-150 | | | |
| **LCS (B183209-BS1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| CT ETPH | 21.7 | 10 | mg/Kg wet | 33.3 | | 65.2 | 60-120 | | | |
| Surrogate: o-Terphenyl | *2.25* | | mg/Kg wet | 3.33 | | 67.5 | 50-150 | | | |
| **LCS Dup (B183209-BSD1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| CT ETPH | 22.9 | 10 | mg/Kg wet | 33.3 | | 68.8 | 60-120 | 5.37 | 30 | |
| Surrogate: o-Terphenyl | *2.32* | | mg/Kg wet | 3.33 | | 69.5 | 50-150 | | | |

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B182729 - SW-846 3050B** | | | | | | | | | | | |
| **Blank (B182729-BLK1)** | | | | Prepared: 07/27/17 | Analyzed: 07/31/17 | | | | | | |
| Arsenic | ND | 2.5 | mg/Kg wet | | | | | | | | |
| **LCS (B182729-BS1)** | | | | Prepared: 07/27/17 | Analyzed: 07/31/17 | | | | | | |
| Arsenic | 57.7 | 5.0 | mg/Kg wet | 57.0 | | 101 | | 77.8-122.1 | | | |
| **LCS Dup (B182729-BSD1)** | | | | Prepared: 07/27/17 | Analyzed: 07/31/17 | | | | | | |
| Arsenic | 55.6 | 5.0 | mg/Kg wet | 57.0 | | 97.5 | | 77.8-122.1 | 3.70 | 30 | |
| **Duplicate (B182729-DUP1)** | **Source: 17G1169-17** | | | Prepared: 07/27/17 | Analyzed: 07/31/17 | | | | | | |
| Arsenic | ND | 2.6 | mg/Kg dry | | ND | | | | NC | 35 | |
| **Matrix Spike (B182729-MS1)** | **Source: 17G1169-17** | | | Prepared: 07/27/17 | Analyzed: 07/31/17 | | | | | | |
| Arsenic | 24.0 | 2.5 | mg/Kg dry | 25.4 | ND | 94.4 | | 75-125 | | | |
| **Batch B183019 - SW-846 3050B** | | | | | | | | | | | |
| **Blank (B183019-BLK1)** | | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| Lead | ND | 0.75 | mg/Kg wet | | | | | | | | |
| **LCS (B183019-BS1)** | | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| Lead | 76.5 | 1.5 | mg/Kg wet | 85.6 | | 89.4 | | 82.4-117.8 | | | |
| **LCS Dup (B183019-BSD1)** | | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| Lead | 87.7 | 1.5 | mg/Kg wet | 85.6 | | 102 | | 82.4-117.8 | 13.6 | 30 | |
| **Duplicate (B183019-DUP1)** | **Source: 17G1169-17RE1** | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| Lead | 3.65 | 0.75 | mg/Kg dry | | 3.34 | | | | 8.95 | 35 | M-10 |
| **MRL Check (B183019-MRL1)** | | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| **Lead** | 1.05 | 0.74 | mg/Kg wet | 0.736 | | **142** | * | 80-120 | | | M-10 |
| **Matrix Spike (B183019-MS1)** | **Source: 17G1169-17RE1** | | | Prepared: 08/01/17 | Analyzed: 08/03/17 | | | | | | |
| Lead | 27.1 | 0.77 | mg/Kg dry | 25.6 | 3.34 | 92.7 | | 75-125 | | | |

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**QUALITY CONTROL**

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B182889 - % Solids** | | | | | | | | | | |
| **Duplicate (B182889-DUP5)** | | **Source: 17G1169-20** | | Prepared: 07/31/17 Analyzed: 08/01/17 | | | | | | |
| % Solids | 88.2 | | % Wt | | 87.0 | | | 1.37 | 20 | |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC12W-SO-96-4

Lab Sample ID: 17G1169-20 Date(s) Analyzed 08/04/2017 08/04/2017

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1260 | 1 | 0.000 | -0.030 | 0.030 | 0.16 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.17 | 6.1 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B183245-BS1

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

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | -0.030 | 0.030 | 0.18 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.17 | 11.1 |
| Aroclor-1260 | 1 | 0.000 | -0.030 | 0.030 | 0.17 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.16 | 6.1 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS Dup**

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

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

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

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**Matrix Spike**

Lab Sample ID: B183245-MS1

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

Instrument ID (1): ECD10

Instrument ID (2): ECD10

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | -0.030 | 0.030 | 0.21 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.22 | 4.7 |
| Aroclor-1260 | 1 | 0.000 | -0.030 | 0.030 | 0.35 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.37 | 5.6 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**Matrix Spike Dup**

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

Instrument ID (1): ECD10 Instrument ID (2): ECD10

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | -0.030 | 0.030 | 0.26 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.24 | 8.0 |
| Aroclor-1260 | 1 | 0.000 | -0.030 | 0.030 | 0.36 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.37 | 2.7 |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| M-10 | The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be biased on the high side. |

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

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(a)anthracene | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene | CT,NY,NH,ME,NC,VA |
| Chrysene | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene | CT,NY,NH,ME,NC,VA |
| Fluoranthene | CT,NY,NH,ME,NC,VA |
| Fluorene | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene | CT,NY,NH,ME,NC,VA |
| Naphthalene | CT,NY,NH,ME,NC,VA |
| Phenanthrene | CT,NY,NH,ME,NC,VA |
| Pyrene | CT,NY,NH,ME,NC,VA |

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

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

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

17C-1169

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

# CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



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

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

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

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

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | (Soxhlet) PCBs | PAHs | ETPH | # of Containers | [2] Preservation Code | [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 01 | WS-AOCIZE-SO-18-1 | 7/25/17 | 15:16 | | X | S | U | X | | | | | |
| 02 | WS-AOCIZE-SO-18-2 | ↓ | 15:17 | | ↓ | ↓ | ↓ | X | | | | | |
| 03 | WS-AOCIZE-SO-18-3 | | 15:18 | | | | | X | | | | | |
| 04 | WS-AOCIZE-SO-6-1A | | 15:10 | | | | | X | | | | | |
| 05 | WS-AOCIZE-SO-6-1B | | 15:12 | | | | | | X | X | | | |
| 06 | WS-AOCIZE-SO-6-2 | | 15:14 | | | | | X | | | | | |
| 07 | WS-AOCIZE-SO-6-3 | | 15:16 | | | | | X | | | | | |
| 08 | WS-AOCIZE-SO-13-1A | | 15:34 | | | | | X | | | | | |
| 09 | WS-AOCIZE-SO-13-1B | | 15:35 | | | | | | | X | | | |
| 10 | WS-AOCIZE-SO-13-2 | ↓ | 15:36 | | ↓ | ↓ | ↓ | X | | | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

**Detection Limit Requirements**
MA
CT RES DEC
Other

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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17G1169

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

**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:**
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H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define) _____

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

Comments:
WS-AOC12W-SO-97-4 (MS-MSD)
Please hold excess volumes for possible SPLP analyses.

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

| Relinquished by: (signature) | Date/Time: |
|---|---|
| [signature] | 7/26/17 1530 |
| Received by: (signature) | Date/Time: |
| [signature] | 7/26/17 15:3 |
| Relinquished by: (signature) | Date/Time: |
| [signature] | 7/26/17 17:03 |
| Received by: (signature) | Date/Time: |
| [signature] | 7/26/17 1703 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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East Longmeadow, MA. 01028
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F: 413-525-6405
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con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** BLF Date 7/26/17 Time 1703

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

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

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

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

**Unused Media**

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

**Comments:**

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

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

## CT ETPH DISCRIMINATION CHECK

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

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

* One compound allowed %D <= 50%

Samples

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

D:\HPCHEM\1\DATA\A080717.SEC\A0807007.D

## CT ETPH DISCRIMINATION CHECK

| | |
|---|---|
| Date Acquired | 8/7/17 |
| Data File Name | A0807007.D |
| Sample Name | ETPH 1500 |
| Instrument Name | 5890DFID |

| Compound | Ret Time | Target Response | Average Response | *%D +/- 20 |
|---|---|---|---|---|
| c - 9 | 1.28 | 567269 | 616507 | -8 |
| c - 10 | 1.63 | 582026 | 616507 | -6 |
| c - 12 | 2.35 | 602280 | 616507 | -2 |
| c - 14 | 3.01 | 616087 | 616507 | 0 |
| c - 16 | 3.62 | 632696 | 616507 | 3 |
| c - 18 | 4.23 | 627640 | 616507 | 2 |
| o-Terphenyl | 4.52 | 702616 | 616507 | |
| c - 20 | 4.84 | 638720 | 616507 | 4 |
| c - 22 | 5.34 | 651603 | 616507 | 6 |
| c - 24 | 5.78 | 609664 | 616507 | -1 |
| c - 26 | 6.17 | 643711 | 616507 | 4 |
| c - 28 | 6.53 | 633637 | 616507 | 3 |
| c - 30 | 6.86 | 630017 | 616507 | 2 |
| c - 32 | 7.17 | 609518 | 616507 | -1 |
| c - 34 | 7.46 | 605031 | 616507 | -2 |
| c - 36 | 7.78 | 597714 | 616507 | -3 |

* One compound allowed %D <= 50%

Samples

17G1300-01
17G1169-05@5X
17G1073-02@5X
17G1253-09@20X
17G1255-15@20X
17G1255-19@5X

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17G1169

***Laboratory Sample ID(s):***

17G1169-01 thru 17G1169-20

***Sample Date(s):***

07/25/2017,
07/26/2017

*List RCP Methods Used:*

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

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

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

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

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

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

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

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

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

August 25, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1437

Enclosed are results of analyses for samples received by the laboratory on July 31, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17G1437

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

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

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

con-test® ANALYTICAL LABORATORY

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

**CASE NARRATIVE SUMMARY**

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

**SW-846 8082A**

**Qualifications:**

**V-06**

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

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

**Aroclor-1260 [2C]**

B183138-BS1, B183138-BSD1

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-01**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1221 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1232 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1242 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1248 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1254 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1260 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1262 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |
| Aroclor-1268 [1] | ND | 0.15 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 22:55 | TG |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-01**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 67.2 | | % Wt | 1 | | SM 2540G | 8/5/17 | 8/7/17 6:28 | MRL |

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-02**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1260 [2] | 0.16 | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:13 | TG |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-02**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 93.9 | | % Wt | 1 | | SM 2540G | 8/5/17 | 8/7/17 6:28 | MRL |

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-03**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:30 | TG |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-03**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.4 | | % Wt | 1 | | SM 2540G | 8/5/17 | 8/7/17 6:28 | MRL |

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-04**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1221 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1232 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1242 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1248 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1254 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1260 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1262 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |
| Aroclor-1268 [1] | ND | 0.18 | mg/Kg dry | 5 | | SW-846 8082A | 8/8/17 | 8/24/17 23:48 | TG |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-04**

Sample Matrix: Soil

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

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 57.0 | | % Wt | 1 | | SM 2540G | 8/5/17 | 8/7/17 6:28 | MRL |

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-05**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1221 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1232 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1242 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1248 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1254 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1260 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1262 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |
| Aroclor-1268 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 7:45 | JMB |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-06**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1221 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1232 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1242 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1248 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1254 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1260 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1262 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |
| Aroclor-1268 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:03 | JMB |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-07**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1221 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1232 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1242 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1248 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1254 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1260 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1262 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |
| Aroclor-1268 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:21 | JMB |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-08**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1221 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1232 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1242 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1248 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1254 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1260 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1262 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |
| Aroclor-1268 [1] | ND | 1.0 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:39 | JMB |

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-09**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1221 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1232 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1242 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1248 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1254 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1260 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1262 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |
| Aroclor-1268 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 8:57 | JMB |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-10**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1221 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1232 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1242 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1248 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1254 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1260 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1262 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |
| Aroclor-1268 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:15 | JMB |

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-11**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1221 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1232 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1242 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1248 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1254 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1260 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1262 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |
| Aroclor-1268 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:33 | JMB |

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-12**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1221 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1232 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1242 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1248 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1254 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1260 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1262 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |
| Aroclor-1268 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 9:51 | JMB |

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-13**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1221 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1232 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1242 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1248 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1254 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1260 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1262 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |
| Aroclor-1268 [1] | ND | 0.99 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:08 | JMB |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1437-14**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1221 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1232 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1242 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1248 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1254 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1260 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1262 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |
| Aroclor-1268 [1] | ND | 0.97 | mg/Kg | 10 | | SW-846 8082A | 8/2/17 | 8/10/17 10:26 | JMB |

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

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## Sample Extraction Data

**Prep Method: % Solids-SM 2540G**

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

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

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

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

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

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 B183138 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183138-BLK1)** | | | | Prepared: 08/02/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.995* | | mg/Kg | 1.00 | | 99.5 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.908* | | mg/Kg | 1.00 | | 90.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.856* | | mg/Kg | 1.00 | | 85.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.908* | | mg/Kg | 1.00 | | 90.8 | 30-150 | | | |
| **LCS (B183138-BS1)** | | | | Prepared: 08/02/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.78 | 0.10 | mg/Kg | 1.00 | | 78.0 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.86 | 0.10 | mg/Kg | 1.00 | | 85.6 | 40-140 | | | |
| Aroclor-1260 | 0.76 | 0.10 | mg/Kg | 1.00 | | 76.1 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.79 | 0.10 | mg/Kg | 1.00 | | 78.7 | 40-140 | | | V-06 |
| Surrogate: Decachlorobiphenyl | *0.994* | | mg/Kg | 1.00 | | 99.4 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.920* | | mg/Kg | 1.00 | | 92.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.848* | | mg/Kg | 1.00 | | 84.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.893* | | mg/Kg | 1.00 | | 89.3 | 30-150 | | | |
| **LCS Dup (B183138-BSD1)** | | | | Prepared: 08/02/17 Analyzed: 08/04/17 | | | | | | |
| Aroclor-1016 | 0.81 | 0.10 | mg/Kg | 1.00 | | 81.0 | 40-140 | 3.74 | 30 | |
| Aroclor-1016 [2C] | 0.90 | 0.10 | mg/Kg | 1.00 | | 89.6 | 40-140 | 4.59 | 30 | |
| Aroclor-1260 | 0.79 | 0.10 | mg/Kg | 1.00 | | 78.9 | 40-140 | 3.67 | 30 | |
| Aroclor-1260 [2C] | 0.83 | 0.10 | mg/Kg | 1.00 | | 82.8 | 40-140 | 5.07 | 30 | V-06 |
| Surrogate: Decachlorobiphenyl | *1.04* | | mg/Kg | 1.00 | | 104 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.982* | | mg/Kg | 1.00 | | 98.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.886* | | mg/Kg | 1.00 | | 88.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.945* | | mg/Kg | 1.00 | | 94.5 | 30-150 | | | |

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 B183607 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183607-BLK1)** | | | | Prepared: 08/08/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.178* | | mg/Kg wet | 0.200 | | 88.9 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.175* | | mg/Kg wet | 0.200 | | 87.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.170* | | mg/Kg wet | 0.200 | | 85.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.187* | | mg/Kg wet | 0.200 | | 93.6 | 30-150 | | | |
| **LCS (B183607-BS1)** | | | | Prepared: 08/08/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 80.3 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 82.7 | 40-140 | | | |
| Aroclor-1260 | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 72.7 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.14 | 0.020 | mg/Kg wet | 0.200 | | 71.7 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.175* | | mg/Kg wet | 0.200 | | 87.6 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.175* | | mg/Kg wet | 0.200 | | 87.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.172* | | mg/Kg wet | 0.200 | | 86.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.188* | | mg/Kg wet | 0.200 | | 93.8 | 30-150 | | | |
| **LCS Dup (B183607-BSD1)** | | | | Prepared: 08/08/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 81.0 | 40-140 | 0.789 | 30 | |
| Aroclor-1016 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 85.5 | 40-140 | 3.27 | 30 | |
| Aroclor-1260 | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 75.8 | 40-140 | 4.16 | 30 | |
| Aroclor-1260 [2C] | 0.15 | 0.020 | mg/Kg wet | 0.200 | | 73.9 | 40-140 | 3.02 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.184* | | mg/Kg wet | 0.200 | | 91.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.180* | | mg/Kg wet | 0.200 | | 90.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.173* | | mg/Kg wet | 0.200 | | 86.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.188* | | mg/Kg wet | 0.200 | | 94.2 | 30-150 | | | |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**WS-AOC9-SO-DUP-36**

Lab Sample ID: 17G1437-02

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

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1260 | 1 | 0.000 | -0.030 | 0.030 | 0.14 | |
| | 2 | 0.000 | -0.030 | 0.030 | 0.16 | 13.3 |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| V-06 | Continuing calibration did not meet method specifications and was biased on the high side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the high side. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8082A in Product/Solid*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| ***SW-846 8082A in Soil*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |

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

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

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

con-test ANALYTICAL LABORATORY

1 CG 1437

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 | PAH | ETPH | SVOCs | RSR 15 Metal | VOCs | # of Containers | [2] Preservation Code | [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WS-AOC9-SO-DUP-35 | 7/31/17 | | | X | S | V | X | | | | | | | | |
| 2 | WS-AOC9-SO-DUP-36 | | | | | | | X | | | | | | | | |
| 3 | WS-AOC9-SO-DUP-37 | | | | | | | X | | | | | | | | |
| 4 | WS-AOC8-SO-DUP-38 | | | | | | | X | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

17G143 /

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Doc # 381 Rev 1_03242017

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CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



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

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

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

**Company Name:**
Address: 273 Dividend Road, Rocky Hill CT
Phone: 860-513-1473
**Project Name:** English Station
Project Location: 510 Grand Ave, New Haven CT
Project Number: 21209495
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: N. Zholog Ames

**ANALYSIS REQUESTED**

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

| | 1 | 2 | 3 |
|---|---|---|---|
| # of Containers | | | |
| [2] Preservation Code | | | |
| [3] Container Code | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

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

| | |
|---|---|
| Relinquished by: (signature) | Date/Time: 7/31/17 1540 |
| Received by: (signature) | Date/Time: 7/31/17 15:40 |
| Relinquished by: (signature) | Date/Time: 7/31/17 5:20 |
| Received by: (signature) | Date/Time: 7/31/17 1720 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA:
CT: RES DEC
Other:

**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

39 Spruce St.
East Longmeadow, MA. 01028
P: 413-525-2332
F: 413-525-6405
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Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** JM Date 7/31/17 Time 1720

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.7, 4.0
By Blank # ____ Actual Temp - ____

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

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

**Unused Media**

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

**Comments:**

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17G1437

***Laboratory Sample ID(s):***

17G1437-01 thru 17G1437-14

***Sample Date(s):***

07/31/2017

*List RCP Methods Used:*

SW-846 8082A

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

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

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

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

**Printed Name:** **Lisa A. Worthington** **Date:** **08/25/17**

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

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

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

October 5, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17G1438

Enclosed are results of analyses for samples received by the laboratory on July 31, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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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: 10/5/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17G1438

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

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

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| WS-AOC-12W-AS-11 | 17G1438-01 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-12 | 17G1438-02 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-13 | 17G1438-03 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-14 | 17G1438-04 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-15 | 17G1438-05 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-16 | 17G1438-06 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-17 | 17G1438-07 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-18 | 17G1438-08 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-19 | 17G1438-09 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-20 | 17G1438-10 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-Dup-1 | 17G1438-11 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-21 | 17G1438-12 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-22 | 17G1438-13 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-23 | 17G1438-14 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-24 | 17G1438-15 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-25 | 17G1438-16 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-AS-26 | 17G1438-17 | Product/Solid | | SW-846 8082A | |
| EB-22 | 17G1438-18 | Equipment Blank Water | | SW-846 8082A | |

con-test® ANALYTICAL LABORATORY

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

**CASE NARRATIVE SUMMARY**

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

**SW-846 8082A**

**Qualifications:**

**DL-03**

Elevated reporting limit due to matrix.

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

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

**S-12**

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

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

**Decachlorobiphenyl**

17G1438-18[EB-22]

**V-20**

Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound.

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

**Aroclor-1268**

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

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

Lisa A. Worthington
Project Manager

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-01**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-02**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1221 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1232 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1242 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1248 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1254 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1260 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1262 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |
| Aroclor-1268 [1] | ND | 0.98 | mg/Kg | 10 | V-20 | SW-846 8082A | 8/8/17 | 8/11/17 22:18 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-03**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-04**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-05**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-06**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1221 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1232 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1242 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1248 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1254 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1260 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1262 [1] | ND | 0.98 | mg/Kg | 10 | | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |
| Aroclor-1268 [1] | ND | 0.98 | mg/Kg | 10 | V-20 | SW-846 8082A | 8/8/17 | 8/11/17 23:31 | KAL |

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-07**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-08**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-09**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-10**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-11**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-12**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-13**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-14**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-15**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-16**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-17**

Sample Matrix: Product/Solid

Sample Flags: DL-03

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

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

Date Received: 7/31/2017

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

**Sample ID: 17G1438-18**

Sample Matrix: Equipment Blank Water

**Polychlorinated Biphenyls By GC/ECD**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1221 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1232 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1242 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1248 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1254 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1260 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1262 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |
| Aroclor-1268 [2] | ND | 0.19 | µg/L | 1 | | SW-846 8082A | 8/3/17 | 8/7/17 15:56 | KAL |

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

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## Sample Extraction Data

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

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

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

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

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**QUALITY CONTROL**

**Polychlorinated Biphenyls By GC/ECD - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183192 - SW-846 3510C** | | | | | | | | | | |
| **Blank (B183192-BLK1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Aroclor-1016 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1221 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1232 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1242 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1248 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1254 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1260 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1262 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1268 | ND | 0.20 | µg/L | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.20 | µg/L | | | | | | | |
| Surrogate: Decachlorobiphenyl | *2.15* | | µg/L | 2.00 | | 107 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *2.31* | | µg/L | 2.00 | | 116 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.89* | | µg/L | 2.00 | | 94.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.98* | | µg/L | 2.00 | | 99.2 | 30-150 | | | |
| **LCS (B183192-BS1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Aroclor-1016 | 0.55 | 0.20 | µg/L | 0.500 | | 110 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.64 | 0.20 | µg/L | 0.500 | | 128 | 40-140 | | | |
| Aroclor-1260 | 0.52 | 0.20 | µg/L | 0.500 | | 103 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.61 | 0.20 | µg/L | 0.500 | | 121 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *2.16* | | µg/L | 2.00 | | 108 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *2.33* | | µg/L | 2.00 | | 116 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.85* | | µg/L | 2.00 | | 92.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *2.00* | | µg/L | 2.00 | | 100 | 30-150 | | | |
| **LCS Dup (B183192-BSD1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Aroclor-1016 | 0.58 | 0.20 | µg/L | 0.500 | | 115 | 40-140 | 4.87 | 20 | |
| Aroclor-1016 [2C] | 0.68 | 0.20 | µg/L | 0.500 | | 137 | 40-140 | 6.39 | 20 | |
| Aroclor-1260 | 0.53 | 0.20 | µg/L | 0.500 | | 105 | 40-140 | 1.89 | 20 | |
| Aroclor-1260 [2C] | 0.64 | 0.20 | µg/L | 0.500 | | 129 | 40-140 | 6.02 | 20 | |
| Surrogate: Decachlorobiphenyl | *2.14* | | µg/L | 2.00 | | 107 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *2.32* | | µg/L | 2.00 | | 116 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.87* | | µg/L | 2.00 | | 93.7 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.99* | | µg/L | 2.00 | | 99.6 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183608 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183608-BLK1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.958* | | mg/Kg | 1.00 | | 95.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.01* | | mg/Kg | 1.00 | | 101 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.918* | | mg/Kg | 1.00 | | 91.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.999* | | mg/Kg | 1.00 | | 99.9 | 30-150 | | | |
| **LCS (B183608-BS1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | 0.94 | 0.10 | mg/Kg | 1.00 | | 94.2 | 40-140 | | | |
| Aroclor-1016 [2C] | 1.0 | 0.10 | mg/Kg | 1.00 | | 105 | 40-140 | | | |
| Aroclor-1260 | 0.85 | 0.10 | mg/Kg | 1.00 | | 84.7 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.87 | 0.10 | mg/Kg | 1.00 | | 87.4 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *1.03* | | mg/Kg | 1.00 | | 103 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.10* | | mg/Kg | 1.00 | | 110 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.991* | | mg/Kg | 1.00 | | 99.1 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.10* | | mg/Kg | 1.00 | | 110 | 30-150 | | | |
| **LCS Dup (B183608-BSD1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | 0.89 | 0.10 | mg/Kg | 1.00 | | 89.4 | 40-140 | 5.25 | 30 | |
| Aroclor-1016 [2C] | 0.95 | 0.10 | mg/Kg | 1.00 | | 95.4 | 40-140 | 9.56 | 30 | |
| Aroclor-1260 | 0.79 | 0.10 | mg/Kg | 1.00 | | 79.5 | 40-140 | 6.32 | 30 | |
| Aroclor-1260 [2C] | 0.81 | 0.10 | mg/Kg | 1.00 | | 81.4 | 40-140 | 7.12 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.953* | | mg/Kg | 1.00 | | 95.3 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.00* | | mg/Kg | 1.00 | | 100 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.943* | | mg/Kg | 1.00 | | 94.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.998* | | mg/Kg | 1.00 | | 99.8 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

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

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS**

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

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.55 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.64 | 15.1 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.52 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.61 | 15.9 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS Dup**

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

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.58 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.68 | 15.9 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.53 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.64 | 18.8 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B183608-BS1

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

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.94 | |
| | 2 | 0.000 | 0.000 | 0.000 | 1.0 | 6.2 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.85 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.87 | 2.3 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LCS Dup**

Lab Sample ID: B183608-BSD1 Date(s) Analyzed 08/10/2017 08/10/2017

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 0.89 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.95 | 6.5 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.79 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.81 | 1.2 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**Matrix Spike**

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

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 1.1 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.87 | 23.4 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.74 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.77 | 4.0 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**Matrix Spike Dup**

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

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1016 | 1 | 0.000 | 0.000 | 0.000 | 1.1 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.86 | 24.5 |
| Aroclor-1260 | 1 | 0.000 | 0.000 | 0.000 | 0.72 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.75 | 4.1 |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| DL-03 | Elevated reporting limit due to matrix. |
| S-12 | Surrogate recovery is outside of control limits on confirmatory column, but within control limits on primary column. Data validation is not affected. |
| V-20 | Continuing calibration did not meet method specifications and was biased on the high side. Data validation is not affected since sample result was "not detected" for this compound. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8082A in Product/Solid*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| ***SW-846 8082A in Water*** | |
| Aroclor-1016 | CT,NH,NY,NC,ME,VA |
| Aroclor-1016 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1221 | CT,NH,NY,NC,ME,VA |
| Aroclor-1221 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1232 | CT,NH,NY,NC,ME,VA |
| Aroclor-1232 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1242 | CT,NH,NY,NC,ME,VA |
| Aroclor-1242 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1248 | CT,NH,NY,NC,ME,VA |
| Aroclor-1248 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1254 | CT,NH,NY,NC,ME,VA |
| Aroclor-1254 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1260 | CT,NH,NY,NC,ME,VA |
| Aroclor-1260 [2C] | CT,NH,NY,NC,ME,VA |
| Aroclor-1262 | NH,NY,NC,ME,VA |
| Aroclor-1262 [2C] | NH,NY,NC,ME,VA |
| Aroclor-1268 | NH,NY,NC,ME,VA |
| Aroclor-1268 [2C] | NH,NY,NC,ME,VA |

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

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

1761438

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Email: info@contestlabs.com

http://www.contestlabs.com

Doc # 381 Rev 1_03242017

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



**Company Name:**
Address: 273 Dividend Road, Rocky Hill CT
Phone: 860-513-1473
**Project Name:** English Station
Project Location: 510 Grand Ave New Haven CT
Project Number: 2170495
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: Nicholas Ames

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

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

**Data Delivery**
Format: PDF ☒ EXCEL ☒
Other:
CLP Like Data Pkg Required: ☐
Email To: beelerm@wsinc.com
Fax To #:

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | PCB w/ Soxhlet Extraction | | |

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Doc # 381 Rev 1_03242017

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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



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

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

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

Company Name:
Address: 273 Dividend Road Rocky Hill CT
Phone: 860-513-1423
Project Name: English Station
Project Location: 51 Grand Ave, New Haven CT
Project Number: 210495
Project Manager: Malcolm Beeler
Con-Test Quote Name/Number:
Invoice Recipient: Malcolm Beeler (Weston + Sampson)
Sampled By: Nicholas Ames

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1] Matrix Code | Conc Code | PCB w/ Soxhlet extraction | | | | | | | | | | | # of Containers / [2] Preservation Code / [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | I | | | | | | | | | | | # of Containers |
| | | | | | | | | H | | | | | | | | | | | [2] Preservation Code |
| | | | | | | | | A | | | | | | | | | | | [3] Container Code |
| 11 | WS-AOC-12W-AS-Dup1 | 7/31/17 | – | | X | O | | X | | | | | | | | | | | |
| 12 | WS-AOC-12W-AS-21 | ↓ | 1325 | | ↓ | ↓ | | ↓ | | | | | | | | | | | |
| 13 | WS-AOC-12W-AS-22 | | 1330 | | | | | | | | | | | | | | | | |
| 14 | WS-AOC-12W-AS-23 | | 1335 | | | | | | | | | | | | | | | | |
| 15 | WS-AOC-12W-AS-24 | | 1340 | | | | | | | | | | | | | | | | |
| 16 | WS-AOC-12W-AS-25 | | 1430 | | | | | | | | | | | | | | | | |
| 17 | WS-AOC-12W-AS-26 | | 1435 | | | | | | | | | | | | | | | | |
| 18 | EB-~~23~~ | | 1515 | | ✓ | DI | | ✓ | | | | | | | | | | | |
| 19 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | |

Comments:

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

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

| | | | |
|---|---|---|---|
| Relinquished by: (signature) | Date/Time: 7/31/17 1540 | Detection Limit Requirements | Special Requirements |
| Received by: (signature) 7/31/17 | Date/Time: 1540 | MA | ☐ MA MCP Required |
| | | | MCP Certification Form Required |
| | | | ☒ CT RCP Required |
| Relinquished by: (signature) 7/31/17 | Date/Time: 5:20 | CT RES DEC | RCP Certification Form Required |
| | | | |
| | | | ☐ MA State DW Required |
| Received by: (signature) 7/31/17 | Date/Time: 1720 | Other | PWSID # |
| Relinquished by: (signature) | Date/Time: | | |
| Received by: (signature) | Date/Time: | | |

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NELAC and AIHA-LAP, LLC Accredited

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

**Other**
☐ Chromatogram
☐ *AIHA-LAP,LLC*

**PCB ONLY**
☐ Soxhlet
☐ Non Soxhlet



Table of Contents

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Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** JM Date 7/31/17 Time 1720

How were the samples received? In Cooler T No Cooler ____ On Ice T No Ice ____
Direct from Sampling ____ Ambient ____ Melted Ice ____
By Gun # 1 Actual Temp - 2.7, 4.0

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

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

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? N/A

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

| Vials | # | Containers: | | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | 2 | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | |
| Meoh- | | 250 mL Amb. | | 250 mL Plastic | | 4oz Amb/Clear | 19 |
| Bisulfate- | | Col./Bacteria | | Flashpoint | | 2oz Amb/Clear | |
| DI- | | Other Plastic | | Other Glass | | Encore | |
| Thiosulfate- | | SOC Kit | | Plastic Bag | | Frozen: | |
| Sulfuric- | | Perchlorate | | Ziplock | | | |

**Unused Media**

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

**Comments:**

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17G1438

***Laboratory Sample ID(s):***

17G1438-01 thru 17G1438-18

***Sample Date(s):***

07/31/2017

*List RCP Methods Used:*

SW-846 8082A

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

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

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

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

**Printed Name:** **Lisa A. Worthington** **Date:** **08/14/17**

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

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

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

August 17, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0062

Enclosed are results of analyses for samples received by the laboratory on August 1, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/17/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17H0062

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

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

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

con-test® ANALYTICAL LABORATORY

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

**CASE NARRATIVE SUMMARY**

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

**SW-846 8082A**

**Qualifications:**

**V-06**

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

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

**Aroclor-1016**
B184054-BS1, B184054-BSD1

**Aroclor-1260**
B184054-BS1, B184054-BSD1

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

Lisa A. Worthington
Project Manager

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: 17H0062

Date Received: 8/1/2017

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

**Sample ID: 17H0062-01**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:42 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-02**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 16:54 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-03**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:07 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-04**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:19 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-05**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:33 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-06**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:46 | JMB |

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

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: 17H0062

Date Received: 8/1/2017

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

**Sample ID: 17H0062-07**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 17:59 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-08**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:11 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-09**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:24 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-10**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 18:37 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-11**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:28 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-12**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:40 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-13**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 20:53 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-14**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:06 | JMB |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-15**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1242 [1] | 0.88 | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:18 | JMB |

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-16**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:31 | JMB |

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-17**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:43 | JMB |

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-18**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 21:56 | JMB |

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0062-19**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1242 [1] | 0.94 | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/16/17 22:09 | JMB |

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

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

## Sample Extraction Data

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

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

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B184054 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B184054-BLK1)** | | | | Prepared: 08/14/17 Analyzed: 08/16/17 | | | | | | |
| Aroclor-1016 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Surrogate: Decachlorobiphenyl | *1.17* | | mg/Kg | 1.00 | | 117 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.06* | | mg/Kg | 1.00 | | 106 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.04* | | mg/Kg | 1.00 | | 104 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.885* | | mg/Kg | 1.00 | | 88.5 | 30-150 | | | |
| **LCS (B184054-BS1)** | | | | Prepared: 08/14/17 Analyzed: 08/16/17 | | | | | | |
| Aroclor-1016 | 0.98 | 0.10 | mg/Kg | 1.00 | | 98.5 | 40-140 | | | V-06 |
| Aroclor-1016 [2C] | 0.92 | 0.10 | mg/Kg | 1.00 | | 92.1 | 40-140 | | | |
| Aroclor-1260 | 0.93 | 0.10 | mg/Kg | 1.00 | | 93.2 | 40-140 | | | V-06 |
| Aroclor-1260 [2C] | 0.84 | 0.10 | mg/Kg | 1.00 | | 83.6 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *1.18* | | mg/Kg | 1.00 | | 118 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.08* | | mg/Kg | 1.00 | | 108 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *1.01* | | mg/Kg | 1.00 | | 101 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.884* | | mg/Kg | 1.00 | | 88.4 | 30-150 | | | |
| **LCS Dup (B184054-BSD1)** | | | | Prepared: 08/14/17 Analyzed: 08/16/17 | | | | | | |
| Aroclor-1016 | 0.94 | 0.10 | mg/Kg | 1.00 | | 94.3 | 40-140 | 4.36 | 30 | V-06 |
| Aroclor-1016 [2C] | 0.88 | 0.10 | mg/Kg | 1.00 | | 87.9 | 40-140 | 4.68 | 30 | |
| Aroclor-1260 | 0.90 | 0.10 | mg/Kg | 1.00 | | 90.3 | 40-140 | 3.10 | 30 | V-06 |
| Aroclor-1260 [2C] | 0.80 | 0.10 | mg/Kg | 1.00 | | 80.4 | 40-140 | 3.92 | 30 | |
| Surrogate: Decachlorobiphenyl | *1.14* | | mg/Kg | 1.00 | | 114 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.05* | | mg/Kg | 1.00 | | 105 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.975* | | mg/Kg | 1.00 | | 97.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.845* | | mg/Kg | 1.00 | | 84.5 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B184054 - SW-846 3540C** | | | | | | | | | | |
| **Matrix Spike (B184054-MS1)** | | **Source: 17H0062-17** | | Prepared: 08/14/17 Analyzed: 08/16/17 | | | | | | |
| Aroclor-1016 | 0.84 | 0.50 | mg/Kg | 1.00 | ND | 83.7 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.89 | 0.50 | mg/Kg | 1.00 | ND | 88.6 | 40-140 | | | |
| Aroclor-1260 | 0.67 | 0.50 | mg/Kg | 1.00 | ND | 66.8 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.68 | 0.50 | mg/Kg | 1.00 | ND | 68.5 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.472* | | mg/Kg | 1.00 | | 47.2 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.557* | | mg/Kg | 1.00 | | 55.7 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.794* | | mg/Kg | 1.00 | | 79.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.834* | | mg/Kg | 1.00 | | 83.4 | 30-150 | | | |
| **Matrix Spike Dup (B184054-MSD1)** | | **Source: 17H0062-17** | | Prepared: 08/14/17 Analyzed: 08/16/17 | | | | | | |
| Aroclor-1016 | 0.93 | 0.50 | mg/Kg | 1.00 | ND | 93.3 | 40-140 | 10.9 | 50 | |
| Aroclor-1016 [2C] | 0.97 | 0.50 | mg/Kg | 1.00 | ND | 96.8 | 40-140 | 8.80 | 50 | |
| Aroclor-1260 | 0.73 | 0.50 | mg/Kg | 1.00 | ND | 72.5 | 40-140 | 8.23 | 50 | |
| Aroclor-1260 [2C] | 0.77 | 0.50 | mg/Kg | 1.00 | ND | 77.0 | 40-140 | 11.7 | 50 | |
| Surrogate: Decachlorobiphenyl | *0.567* | | mg/Kg | 1.00 | | 56.7 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.683* | | mg/Kg | 1.00 | | 68.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.886* | | mg/Kg | 1.00 | | 88.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.931* | | mg/Kg | 1.00 | | 93.1 | 30-150 | | | |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC-12W-AS-54

Lab Sample ID: 17H0062-15

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

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1242 | 1 | 0.000 | 0.000 | 0.000 | 0.88 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.68 | 25.6 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**WS-AOC-12W-AS-Dup2**

Lab Sample ID: 17H0062-19 Date(s) Analyzed: 08/16/2017 08/16/2017

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

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

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1242 | 1 | 0.000 | 0.000 | 0.000 | 0.94 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.81 | 14.9 |

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

**FLAG/QUALIFIER SUMMARY**

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8082A in Product/Solid*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |

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

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

17H0962 17H010

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

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



Table of Contents

con-test ANALYTICAL LABORATORY
Phone: 413-525-2332
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17H0002

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

# CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



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

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

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

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

ANALYSIS REQUESTED

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | [1]Matrix Code | Conc Code | PCB w/ soxhlet extraction | # of Containers | [2] Preservation Code | [3] Container Code |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 11 | WS-AOC-12W-AS- 49 | 8/1/17 | 0955 | | X | O | | X | | | |
| | ~~WS-AOC-12W-AS- 50~~ | | 1005 | | | | | | | | |
| 12 | WS-AOC-12W-AS- 51 | | 1010 | | | | | | | | |
| 13 | WS-AOC-12W-AS- 52 | | 1015 | | | | | | | | |
| 14 | WS-AOC-12W-AS- 53 | | 1020 | | | | | | | | |
| 15 | WS-AOC-12W-AS-54 | | 1035 | | | | | | | | |
| 16 | WS-AOC-12W-AS- 55 | | 1045 | | | | | | | | |
| 17 | WS-AOC-12W-AS- 56 | | 1120 | | | | | | | | |
| 18 | WS-AOC-12W-AS-57 | | 1125 | | | | | | | | |
| 19 | WS-AOC-12W-AS-Dup2 | | — | | | | | | | | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

Comments:

Please hold excess volumes for possible SPLP analyses.

WS-AOC-12W-AS-56 is MS/MSD

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

| | |
|---|---|
| Relinquished by: (signature) | Date/Time: 8/1/17 1525 |
| Received by: (signature) | Date/Time: 8/1/17 1525 |
| Relinquished by: (signature) | Date/Time: 8/1/17 1700 |
| Received by: (signature) 3.9 | Date/Time: 8/1/17 1700 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** JM Date 8/1/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9, 2.8, 3.2
By Blank # ____ Actual Temp - ____

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

| Vials | # | Containers: | # | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | |
| Meoh- | | 250 mL Amb. | | 250 mL Plastic | | 4oz Amb/Clear | 21 |
| Bisulfate- | | Col./Bacteria | | Flashpoint | | 2oz Amb/Clear | |
| DI- | | Other Plastic | | Other Glass | | Encore | |
| Thiosulfate- | | SOC Kit | | Plastic Bag | | Frozen: | |
| Sulfuric- | | Perchlorate | | Ziplock | | | |

**Unused Media**

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

**Comments:**

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17H0062

***Laboratory Sample ID(s):***

17H0062-01 thru 17H0062-19

***Sample Date(s):***

08/01/2017

*List RCP Methods Used:*

SW-846 8082A

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

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

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

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

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

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

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

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

August 25, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0063

Enclosed are results of analyses for samples received by the laboratory on August 1, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17H0063

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

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

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

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

**CASE NARRATIVE SUMMARY**

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

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

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-01**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 14:53 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-02**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:10 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-03**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:28 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-04**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 15:46 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-05**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:03 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-06**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1248 [1] | 0.75 | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:21 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-07**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:38 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-08**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 16:56 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-09**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 17:14 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-10**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:19 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-11**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:37 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-12**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1248 [1] | 0.56 | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 18:54 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-13**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:12 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-14**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:29 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-15**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 19:47 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-16**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1221 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1232 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1242 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1248 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1254 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1260 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1262 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |
| Aroclor-1268 [1] | ND | 0.50 | mg/Kg | 5 | | SW-846 8082A | 8/14/17 | 8/24/17 20:05 | KAL |

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

con-test® ANALYTICAL LABORATORY

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-17**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:23 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-18**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:41 | KAL |

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

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

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

Date Received: 8/1/2017

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

**Sample ID: 17H0063-19**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg | 1 | | SW-846 8082A | 8/14/17 | 8/24/17 20:58 | KAL |

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

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## Sample Extraction Data

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

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

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B184052 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B184052-BLK1)** | | | | Prepared: 08/14/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.942* | | mg/Kg | 1.00 | | 94.2 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.966* | | mg/Kg | 1.00 | | 96.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.765* | | mg/Kg | 1.00 | | 76.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.802* | | mg/Kg | 1.00 | | 80.2 | 30-150 | | | |
| **LCS (B184052-BS1)** | | | | Prepared: 08/14/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.85 | 0.10 | mg/Kg | 1.00 | | 85.1 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.89 | 0.10 | mg/Kg | 1.00 | | 89.0 | 40-140 | | | |
| Aroclor-1260 | 0.79 | 0.10 | mg/Kg | 1.00 | | 79.0 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.81 | 0.10 | mg/Kg | 1.00 | | 81.1 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.937* | | mg/Kg | 1.00 | | 93.7 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.960* | | mg/Kg | 1.00 | | 96.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.817* | | mg/Kg | 1.00 | | 81.7 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.853* | | mg/Kg | 1.00 | | 85.3 | 30-150 | | | |
| **LCS Dup (B184052-BSD1)** | | | | Prepared: 08/14/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.87 | 0.10 | mg/Kg | 1.00 | | 86.7 | 40-140 | 1.85 | 30 | |
| Aroclor-1016 [2C] | 0.93 | 0.10 | mg/Kg | 1.00 | | 92.6 | 40-140 | 3.96 | 30 | |
| Aroclor-1260 | 0.82 | 0.10 | mg/Kg | 1.00 | | 82.4 | 40-140 | 4.24 | 30 | |
| Aroclor-1260 [2C] | 0.83 | 0.10 | mg/Kg | 1.00 | | 83.3 | 40-140 | 2.69 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.950* | | mg/Kg | 1.00 | | 95.0 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.973* | | mg/Kg | 1.00 | | 97.3 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.850* | | mg/Kg | 1.00 | | 85.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.888* | | mg/Kg | 1.00 | | 88.8 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

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

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC-12W-AS-63

Lab Sample ID: 17H0063-06

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

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.000 | 0.000 | 0.000 | 0.75 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.72 | 4.1 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC-12W-AS-69

Lab Sample ID: 17H0063-12

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

Instrument ID (1):

Instrument ID (2):

GC Column (1): ID: (mm)

GC Column (2): ID: (mm)

| ANALYTE | COL | RT | RT WINDOW | | CONCENTRATION | %RPD |
|---|---|---|---|---|---|---|
| | | | FROM | TO | | |
| Aroclor-1248 | 1 | 0.000 | 0.000 | 0.000 | 0.56 | |
| | 2 | 0.000 | 0.000 | 0.000 | 0.52 | 7.4 |

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**FLAG/QUALIFIER SUMMARY**

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

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

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

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

**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8082A in Product/Solid*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |

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

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

17H0003

http://www.contestlabs.com

Doc # 381 Rev 0 5 8 2015

con-test ANALYTICAL LABORATORY

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

CHAIN OF CUSTODY RECORD

39 Spruce Street
East Longmeadow, MA 01028



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

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

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

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

ANALYSIS REQUESTED

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

| | |
|---|---|
| # of Containers | |
| [2] Preservation Code | |
| [3] Container Code | |

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

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

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

| Relinquished by: (signature) | Date/Time: 8/1/17 525 |
|---|---|
| Received by: (signature) | Date/Time: 8/1/17 1000 |
| Relinquished by: (signature) | Date/Time: 8/1/17 5PM |
| Received by: (signature) 3.9 | Date/Time: 8/1/17 1700 |
| Relinquished by: (signature) | Date/Time: |
| Received by: (signature) | Date/Time: |

**Detection Limit Requirements**
MA
CT RES DEC
Other:

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT



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17H0063

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 | PCB w/ Soxhlet extraction | | | | | | | | | # of Containers |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | 1 | | | | | | | | | [2] Preservation Code |
| | | | | | | | | 7 | | | | | | | | | [3] Container Code |
| 11 | WS-AOC-12W-AS-68 | 8/1/17 | 1205 | | X | O | | X | | | | | | | | | |
| 12 | WS-AOC-12W-AS-69 | | 1210 | | | | | X | | | | | | | | | |
| 13 | WS-AOC-12W-AS-71 | | 1215 | | | | | X | | | | | | | | | |
| 14 | WS-AOC-12W-AS-72 | | 1220 | | | | | X | | | | | | | | | |
| 15 | WS-AOC-12W-AS-73 | | 1225 | | | | | X | | | | | | | | | |
| 16 | WS-AOC-12W-AS-Dup3 | | – | | | | | X | | | | | | | | | |
| | ~~WS-AOC12W-CO-112~~ | | | | | | | | | | | | | | | | DS |
| 17 | WS-AOC12W-CO-113 | | 14:40 | | | | | X | | | | | | | | | |
| 18 | WS-AOC12W-CO-114 | | 14:45 | | | | | X | | | | | | | | | |
| 19 | WS-AOC12W-CO-115 | | 14:50 | | | | | X | | | | | | | | | |

Comments:

Please hold excess volumes for possible SPLP analyses.

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

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

**Dissolved Metals Samples**
○ Field Filtered
○ Lab to Filter

**Orthophosphate Samples**
○ Field Filtered
○ Lab to Filter

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

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

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

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

**Detection Limit Requirements**
MA
CT RES DEC
Other:

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

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

con-test® ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

**Client** Weston & Sampson

**Received By** JM Date 8/1/17 Time 1700

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 3.9, 2.8, 3.2 By Blank # ____ Actual Temp - ____

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

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

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

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

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

Are Sample labels filled out and legible? T

Are there Lab to Filters? N/A Who was notified? ____

Are there Rushes? N/A Who was notified? ____

Are there Short Holds? N/A Who was notified? ____

Is there enough Volume? T

Is there Headspace where applicable? N/A MS/MSD? T

Proper Media/Containers Used? T Is splitting samples required? N/A

Were trip blanks received? N/A On COC? N/A

Do all samples have the proper pH? N/A Acid ____ Base ____

| Vials | # | Containers: | # | | # | | # |
|---|---|---|---|---|---|---|---|
| Unp- | | 1 Liter Amb. | | 1 Liter Plastic | | 16 oz Amb. | |
| HCL- | | 500 mL Amb. | | 500 mL Plastic | | 8oz Amb/Clear | |
| Meoh- | | 250 mL Amb. | | 250 mL Plastic | | 4oz Amb/Clear | 21 |
| Bisulfate- | | Col./Bacteria | | Flashpoint | | 2oz Amb/Clear | |
| DI- | | Other Plastic | | Other Glass | | Encore | |
| Thiosulfate- | | SOC Kit | | Plastic Bag | | Frozen: | |
| Sulfuric- | | Perchlorate | | Ziplock | | | |

**Unused Media**

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

**Comments:**

# REASONABLE CONFIDENCE PROTOCOL
# LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

***Client:*** Weston & Sampson

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

***Project Number:*** 17H0063

***Laboratory Sample ID(s):***

17H0063-01 thru 17H0063-19

***Sample Date(s):***

08/01/2017

*List RCP Methods Used:*

SW-846 8082A

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

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

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

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

**Printed Name:** **Lisa A. Worthington** **Date:** **08/25/17**

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

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

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

August 25, 2017

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

Project Location: 510 Grand Ave., New Haven, CT
Client Job Number:
Project Number: 2170495
Laboratory Work Order Number: 17H0064

Enclosed are results of analyses for samples received by the laboratory on August 1, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

James M. Georgantas
Project Manager

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

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

REPORT DATE: 8/25/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17H0064

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

| FIELD SAMPLE # | LAB ID: | MATRIX | SAMPLE DESCRIPTION | TEST | SUB LAB |
|---|---|---|---|---|---|
| WS-AOC-12W-CO-116 | 17H0064-01 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-CO-117 | 17H0064-02 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-CO-118 | 17H0064-03 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-CO-119 | 17H0064-04 | Product/Solid | | SW-846 8082A | |
| WS-AOC-12W-CO-120 | 17H0064-05 | Product/Solid | | SW-846 8082A | |
| WS-AOC9-SO-DUP-39 | 17H0064-06 | Soil | | SM 2540G | |
| | | | | SW-846 8082A | |
| WS-AOC3-SO-DUP-40 | 17H0064-07 | Soil | | CTDEP ETPH | |
| | | | | SM 2540G | |
| | | | | SW-846 6010C-D | |
| | | | | SW-846 7471B | |
| | | | | SW-846 8082A | |
| | | | | SW-846 8260C | |
| | | | | SW-846 8270D | |
| WS-AOC9-SO-DUP-41 | 17H0064-08 | Soil | | SM 2540G | |
| | | | | SW-846 8082A | |
| WS-AOC9-SO-DUP-42 | 17H0064-09 | Soil | | SM 2540G | |
| | | | | SW-846 8082A | |
| WS-AOC9-SO-DUP-43 | 17H0064-10 | Soil | | CTDEP ETPH | |
| | | | | SM 2540G | |
| | | | | SW-846 8270D | |
| WS-AOC9-SO-DUP-4 | 17H0064-11 | Soil | | SM 2540G | |
| | | | | SW-846 8082A | |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**CTDEP ETPH**

**Qualifications:**

**S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**Analyte & Samples(s) Qualified:**

**o-Terphenyl**

17H0064-10[WS-AOC9-SO-DUP-43]

**SW-846 6010C-D**

**Qualifications:**

**B**

Analyte is found in the associated blank as well as in the sample.

**Analyte & Samples(s) Qualified:**

**Zinc**

17H0064-07[WS-AOC3-SO-DUP-40], B183630-BLK1, B183630-BS1, B183630-BSD1

**B-07**

Data is not affected by elevated level in blank since sample result is >10x level found in the blank.

**Analyte & Samples(s) Qualified:**

**Zinc**

17H0064-07[WS-AOC3-SO-DUP-40]

**L-10**

The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side.

**Analyte & Samples(s) Qualified:**

**Lead**

17H0064-07[WS-AOC3-SO-DUP-40], B183630-MRL1

**SW-846 8260C**

**Qualifications:**

**V-16**

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

**Analyte & Samples(s) Qualified:**

**Tetrahydrofuran**

17H0064-07[WS-AOC3-SO-DUP-40], B183261-BLK1, B183261-BS1

**SW-846 8270D**

**Qualifications:**

**RL-12**

Elevated reporting limit due to matrix interference.

**Analyte & Samples(s) Qualified:**

**Fluoranthene**

17H0064-10[WS-AOC9-SO-DUP-43]

**V-16**

Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result.

**Analyte & Samples(s) Qualified:**

**Pentachloronitrobenzene**

17H0064-07[WS-AOC3-SO-DUP-40], B183689-BLK1, B183689-BS1, B183689-BSD1

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

**SW-846 8270D**

The LCS sample recoveries for required RCP 8270 compounds were all within control limits specified by the method, 40-140% for base/neutrals and 30-130% for acids except for "difficult analytes" listed below and/or otherwise listed in this narrative: Difficult analytes for soil - limits between 10 and 180% depending on the compound (see QC summary for limits): 3,3'-Dichlorobenzidine, Pyridine, Aniline, 4-Chloroaniline, 3-Nitroaniline, and n-Nitrosodiphenylamine.

All reporting limits specified on the chain-of-custody were met, except for Pyridine, 1,2,4,5-Tetrachlorobenzene and Pentachloronitrobenzene for the most protective criteria since the laboratory cannot achieve the required RCP calibration criteria at these levels unless otherwise listed in this narrative.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.
I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

Lisa A. Worthington
Project Manager

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT  Sample Description:  Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC-12W-CO-116**  Sampled: 8/1/2017 14:50

**Sample ID: 17H0064-01**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1221 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1232 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1242 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1248 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1254 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1260 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1262 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |
| Aroclor-1268 [1] | ND | 0.095 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:01 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 92.9 | 30-150 | | 8/11/17 1:01 |
| Decachlorobiphenyl [2] | 102 | 30-150 | | 8/11/17 1:01 |
| Tetrachloro-m-xylene [1] | 81.7 | 30-150 | | 8/11/17 1:01 |
| Tetrachloro-m-xylene [2] | 93.8 | 30-150 | | 8/11/17 1:01 |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC-12W-CO-117** Sampled: 8/1/2017 14:55

**Sample ID: 17H0064-02**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1221 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1232 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1242 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1248 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1254 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1260 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1262 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |
| Aroclor-1268 [1] | ND | 0.081 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:19 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 97.2 | 30-150 | | 8/11/17 1:19 |
| Decachlorobiphenyl [2] | 107 | 30-150 | | 8/11/17 1:19 |
| Tetrachloro-m-xylene [1] | 97.7 | 30-150 | | 8/11/17 1:19 |
| Tetrachloro-m-xylene [2] | 109 | 30-150 | | 8/11/17 1:19 |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC-12W-CO-118** Sampled: 8/1/2017 14:40

**Sample ID: 17H0064-03**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1221 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1232 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1242 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1248 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1254 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1260 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1262 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |
| Aroclor-1268 [1] | ND | 0.098 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:36 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 95.6 | 30-150 | | 8/11/17 1:36 |
| Decachlorobiphenyl [2] | 106 | 30-150 | | 8/11/17 1:36 |
| Tetrachloro-m-xylene [1] | 96.9 | 30-150 | | 8/11/17 1:36 |
| Tetrachloro-m-xylene [2] | 109 | 30-150 | | 8/11/17 1:36 |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC-12W-CO-119** Sampled: 8/1/2017 14:35

**Sample ID: 17H0064-04**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1221 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1232 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1242 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1248 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1254 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1260 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1262 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |
| Aroclor-1268 [1] | ND | 0.084 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 1:54 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 90.8 | 30-150 | | 8/11/17 1:54 |
| Decachlorobiphenyl [2] | 99.4 | 30-150 | | 8/11/17 1:54 |
| Tetrachloro-m-xylene [1] | 93.6 | 30-150 | | 8/11/17 1:54 |
| Tetrachloro-m-xylene [2] | 103 | 30-150 | | 8/11/17 1:54 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC-12W-CO-120** Sampled: 8/1/2017 14:30

**Sample ID: 17H0064-05**

Sample Matrix: Product/Solid

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1221 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1232 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1242 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1248 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1254 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1260 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1262 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |
| Aroclor-1268 [1] | ND | 0.093 | mg/Kg | 1 | | SW-846 8082A | 8/7/17 | 8/11/17 2:11 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 91.9 | 30-150 | | 8/11/17 2:11 |
| Decachlorobiphenyl [2] | 101 | 30-150 | | 8/11/17 2:11 |
| Tetrachloro-m-xylene [1] | 95.8 | 30-150 | | 8/11/17 2:11 |
| Tetrachloro-m-xylene [2] | 106 | 30-150 | | 8/11/17 2:11 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-39** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-06**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:32 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 72.6 | 30-150 | | 8/24/17 21:32 |
| Decachlorobiphenyl [2] | 86.2 | 30-150 | | 8/24/17 21:32 |
| Tetrachloro-m-xylene [1] | 75.2 | 30-150 | | 8/24/17 21:32 |
| Tetrachloro-m-xylene [2] | 79.7 | 30-150 | | 8/24/17 21:32 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-39** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-06**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 94.7 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acetone | ND | 0.073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Acrylonitrile | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Benzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Bromobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Bromodichloromethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Bromoform | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Bromomethane | ND | 0.0073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 2-Butanone (MEK) | ND | 0.029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| n-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| sec-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| tert-Butylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Carbon Disulfide | ND | 0.0044 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Carbon Tetrachloride | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Chlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Chlorodibromomethane | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Chloroethane | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Chloroform | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Chloromethane | ND | 0.0073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 2-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 4-Chlorotoluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2-Dibromoethane (EDB) | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Dibromomethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,3-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,4-Dichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| trans-1,4-Dichloro-2-butene | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Dichlorodifluoromethane (Freon 12) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2-Dichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1-Dichloroethylene | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| cis-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| trans-1,2-Dichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,3-Dichloropropane | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 2,2-Dichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1-Dichloropropene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| cis-1,3-Dichloropropene | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| trans-1,3-Dichloropropene | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Ethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Hexachlorobutadiene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 2-Hexanone (MBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Isopropylbenzene (Cumene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Volatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Methylene Chloride | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Naphthalene | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| n-Propylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Styrene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1,1,2-Tetrachloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1,2,2-Tetrachloroethane | ND | 0.00073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Tetrachloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Tetrahydrofuran | ND | 0.0073 | mg/Kg dry | 1 | V-16 | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Toluene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2,3-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2,4-Trichlorobenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1,1-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1,2-Trichloroethane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Trichloroethylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Trichlorofluoromethane (Freon 11) | ND | 0.0073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2,3-Trichloropropane | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.0073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,2,4-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| 1,3,5-Trimethylbenzene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| Vinyl Chloride | ND | 0.0073 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| m+p Xylene | ND | 0.0029 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |
| o-Xylene | ND | 0.0015 | mg/Kg dry | 1 | | SW-846 8260C | 8/3/17 | 8/3/17 16:12 | MFF |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 1,2-Dichloroethane-d4 | 110 | 70-130 | | 8/3/17 16:12 |
| Toluene-d8 | 104 | 70-130 | | 8/3/17 16:12 |
| 4-Bromofluorobenzene | 101 | 70-130 | | 8/3/17 16:12 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Semivolatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Acenaphthylene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Aniline | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Anthracene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Benzo(a)anthracene | 0.93 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Benzo(a)pyrene | 0.82 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Benzo(b)fluoranthene | 1.1 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Benzo(g,h,i)perylene | 0.59 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Benzo(k)fluoranthene | 0.43 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Bis(2-chloroethoxy)methane | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Bis(2-chloroethyl)ether | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Bis(2-chloroisopropyl)ether | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Bis(2-Ethylhexyl)phthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Bromophenylphenylether | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Butylbenzylphthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Carbazole | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Chloroaniline | ND | 0.68 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Chloro-3-methylphenol | ND | 0.68 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2-Chloronaphthalene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2-Chlorophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Chlorophenylphenylether | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Chrysene | 0.97 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Dibenz(a,h)anthracene | 0.18 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Dibenzofuran | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Di-n-butylphthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 3,3-Dichlorobenzidine | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4-Dichlorophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Diethylphthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4-Dimethylphenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Dimethylphthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4,6-Dinitro-2-methylphenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4-Dinitrophenol | ND | 0.68 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4-Dinitrotoluene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,6-Dinitrotoluene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Di-n-octylphthalate | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Fluoranthene | 1.3 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Fluorene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Hexachlorobenzene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Hexachlorobutadiene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Hexachlorocyclopentadiene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Hexachloroethane | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Indeno(1,2,3-cd)pyrene | 0.57 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Isophorone | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2-Methylnaphthalene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Semivolatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| 2-Methylphenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 3/4-Methylphenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Naphthalene | ND | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2-Nitroaniline | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 3-Nitroaniline | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Nitroaniline | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Nitrobenzene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2-Nitrophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 4-Nitrophenol | ND | 0.68 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| N-Nitrosodiphenylamine | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| N-Nitrosodi-n-propylamine | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Pentachloronitrobenzene | ND | 0.35 | mg/Kg dry | 1 | V-16 | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Pentachlorophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Phenanthrene | 0.54 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Phenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Pyrene | 1.4 | 0.17 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| Pyridine | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 1,2,4,5-Tetrachlorobenzene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 1,2,4-Trichlorobenzene | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4,5-Trichlorophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |
| 2,4,6-Trichlorophenol | ND | 0.35 | mg/Kg dry | 1 | | SW-846 8270D | 8/9/17 | 8/10/17 20:59 | BGL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| 2-Fluorophenol | 60.3 | 30-130 | | 8/10/17 20:59 |
| Phenol-d6 | 57.4 | 30-130 | | 8/10/17 20:59 |
| Nitrobenzene-d5 | 68.8 | 30-130 | | 8/10/17 20:59 |
| 2-Fluorobiphenyl | 73.7 | 30-130 | | 8/10/17 20:59 |
| 2,4,6-Tribromophenol | 63.3 | 30-130 | | 8/10/17 20:59 |
| p-Terphenyl-d14 | 74.9 | 30-130 | | 8/10/17 20:59 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:44 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 79.2 | 30-150 | | 8/24/17 21:44 |
| Decachlorobiphenyl [2] | 90.5 | 30-150 | | 8/24/17 21:44 |
| Tetrachloro-m-xylene [1] | 83.9 | 30-150 | | 8/24/17 21:44 |
| Tetrachloro-m-xylene [2] | 87.4 | 30-150 | | 8/24/17 21:44 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| CT ETPH | 34 | 10 | mg/Kg dry | 1 | | CTDEP ETPH | 8/9/17 | 8/10/17 13:49 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| o-Terphenyl | 62.6 | 50-150 | | 8/10/17 13:49 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Metals Analyses (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Antimony | ND | 2.5 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Arsenic | ND | 2.5 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Barium | 36 | 2.5 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Beryllium | 0.34 | 0.25 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Cadmium | ND | 0.25 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Chromium | 8.1 | 0.49 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Copper | 36 | 0.49 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Lead | 27 | 0.74 | mg/Kg dry | 1 | L-10 | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Mercury | 0.048 | 0.025 | mg/Kg dry | 1 | | SW-846 7471B | 8/8/17 | 8/10/17 11:23 | SCB |
| Nickel | 11 | 0.49 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Selenium | ND | 4.9 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Silver | ND | 0.49 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Thallium | ND | 2.5 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Vanadium | 16 | 0.99 | mg/Kg dry | 1 | | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |
| Zinc | 83 | 0.99 | mg/Kg dry | 1 | B, B-07 | SW-846 6010C-D | 8/8/17 | 8/9/17 17:18 | QNW |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC3-SO-DUP-40** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-07**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 97.6 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-41** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-08**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1221 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1232 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1242 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1248 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1254 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1260 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1262 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |
| Aroclor-1268 [1] | ND | 0.10 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 21:56 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 85.4 | 30-150 | | 8/24/17 21:56 |
| Decachlorobiphenyl [2] | 94.6 | 30-150 | | 8/24/17 21:56 |
| Tetrachloro-m-xylene [1] | 91.8 | 30-150 | | 8/24/17 21:56 |
| Tetrachloro-m-xylene [2] | 95.5 | 30-150 | | 8/24/17 21:56 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-41** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-08**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 95.3 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

con-test® ANALYTICAL LABORATORY
39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT  Sample Description:  Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-42**  Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-09**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:09 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 84.7 | 30-150 | | 8/24/17 22:09 |
| Decachlorobiphenyl [2] | 93.9 | 30-150 | | 8/24/17 22:09 |
| Tetrachloro-m-xylene [1] | 93.7 | 30-150 | | 8/24/17 22:09 |
| Tetrachloro-m-xylene [2] | 93.2 | 30-150 | | 8/24/17 22:09 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-42** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-09**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 92.1 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-43** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-10**

Sample Matrix: Soil

**Semivolatile Organic Compounds by GC/MS**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Acenaphthene | 0.52 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Acenaphthylene | ND | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Anthracene | 1.1 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Benzo(a)anthracene | 2.3 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Benzo(a)pyrene | 2.2 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Benzo(b)fluoranthene | 2.5 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Benzo(g,h,i)perylene | 1.7 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Benzo(k)fluoranthene | 0.88 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Chrysene | 2.2 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Dibenz(a,h)anthracene | ND | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Fluoranthene | 5.1 | 0.52 | mg/Kg dry | 2 | RL-12 | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Fluorene | ND | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Indeno(1,2,3-cd)pyrene | 1.4 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| 2-Methylnaphthalene | ND | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Naphthalene | 0.83 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Phenanthrene | 3.0 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |
| Pyrene | 5.6 | 0.52 | mg/Kg dry | 2 | | SW-846 8270D | 8/9/17 | 8/15/17 20:35 | BGL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Nitrobenzene-d5 | 33.7 | 30-130 | | 8/15/17 20:35 |
| 2-Fluorobiphenyl | 30.9 | 30-130 | | 8/15/17 20:35 |
| p-Terphenyl-d14 | 37.2 | 30-130 | | 8/15/17 20:35 |

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Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-43** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-10**

Sample Matrix: Soil

**Petroleum Hydrocarbons Analyses**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| CT ETPH | 1100 | 380 | mg/Kg dry | 25 | | CTDEP ETPH | 8/9/17 | 8/11/17 1:09 | SCS |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| **o-Terphenyl** | * | 50-150 | S-01 | 8/11/17 1:09 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-43** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-10**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 66.0 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-4** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-11**

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| Aroclor-1016 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1221 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1232 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1242 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1248 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1254 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1260 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1262 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |
| Aroclor-1268 [1] | ND | 0.11 | mg/Kg dry | 5 | | SW-846 8082A | 8/9/17 | 8/24/17 22:21 | KAL |

| Surrogates | % Recovery | Recovery Limits | Flag/Qual | |
|---|---|---|---|---|
| Decachlorobiphenyl [1] | 81.5 | 30-150 | | 8/24/17 22:21 |
| Decachlorobiphenyl [2] | 90.2 | 30-150 | | 8/24/17 22:21 |
| Tetrachloro-m-xylene [1] | 84.6 | 30-150 | | 8/24/17 22:21 |
| Tetrachloro-m-xylene [2] | 91.0 | 30-150 | | 8/24/17 22:21 |

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39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT Sample Description: Work Order: 17H0064

Date Received: 8/1/2017

**Field Sample #: WS-AOC9-SO-DUP-4** Sampled: 8/1/2017 00:00

**Sample ID: 17H0064-11**

Sample Matrix: Soil

**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

| Analyte | Results | RL | Units | Dilution | Flag/Qual | Method | Date Prepared | Date/Time Analyzed | Analyst |
|---|---|---|---|---|---|---|---|---|---|
| % Solids | 91.1 | | % Wt | 1 | | SM 2540G | 8/7/17 | 8/8/17 8:53 | MRL |

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## Sample Extraction Data

**Prep Method: SW-846 3546-CTDEP ETPH**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183688 | 30.0 | 1.00 | 08/09/17 |
| 17H0064-10 [WS-AOC9-SO-DUP-43] | B183688 | 30.0 | 1.00 | 08/09/17 |

**Prep Method: % Solids-SM 2540G**

| Lab Number [Field ID] | Batch | Date |
|---|---|---|
| 17H0064-06 [WS-AOC9-SO-DUP-39] | B183482 | 08/07/17 |
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183482 | 08/07/17 |
| 17H0064-08 [WS-AOC9-SO-DUP-41] | B183482 | 08/07/17 |
| 17H0064-09 [WS-AOC9-SO-DUP-42] | B183482 | 08/07/17 |
| 17H0064-10 [WS-AOC9-SO-DUP-43] | B183482 | 08/07/17 |
| 17H0064-11 [WS-AOC9-SO-DUP-4] | B183482 | 08/07/17 |

**Prep Method: SW-846 3050B-SW-846 6010C-D**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183630 | 1.04 | 50.0 | 08/08/17 |

**Prep Method: SW-846 7471-SW-846 7471B**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183537 | 0.603 | 50.0 | 08/08/17 |

**Prep Method: SW-846 3540C-SW-846 8082A**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-01 [WS-AOC-12W-CO-116] | B183543 | 2.10 | 10.0 | 08/07/17 |
| 17H0064-02 [WS-AOC-12W-CO-117] | B183543 | 2.48 | 10.0 | 08/07/17 |
| 17H0064-03 [WS-AOC-12W-CO-118] | B183543 | 2.04 | 10.0 | 08/07/17 |
| 17H0064-04 [WS-AOC-12W-CO-119] | B183543 | 2.39 | 10.0 | 08/07/17 |
| 17H0064-05 [WS-AOC-12W-CO-120] | B183543 | 2.16 | 10.0 | 08/07/17 |

**Prep Method: SW-846 3540C-SW-846 8082A**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-06 [WS-AOC9-SO-DUP-39] | B183729 | 10.0 | 10.0 | 08/09/17 |
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183729 | 10.0 | 10.0 | 08/09/17 |
| 17H0064-08 [WS-AOC9-SO-DUP-41] | B183729 | 10.0 | 10.0 | 08/09/17 |
| 17H0064-09 [WS-AOC9-SO-DUP-42] | B183729 | 10.0 | 10.0 | 08/09/17 |
| 17H0064-11 [WS-AOC9-SO-DUP-4] | B183729 | 10.0 | 10.0 | 08/09/17 |

**Prep Method: SW-846 5035-SW-846 8260C**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183261 | 7.02 | 10.0 | 08/03/17 |

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## Sample Extraction Data

**Prep Method: SW-846 3546-SW-846 8270D**

| Lab Number [Field ID] | Batch | Initial [g] | Final [mL] | Date |
|---|---|---|---|---|
| 17H0064-07 [WS-AOC3-SO-DUP-40] | B183689 | 30.0 | 1.00 | 08/09/17 |
| 17H0064-10 [WS-AOC9-SO-DUP-43] | B183689 | 30.0 | 1.00 | 08/09/17 |

con-test® ANALYTICAL LABORATORY

39 Spruce Street * East Longmeadow, MA 01028 * FAX 413/525-6405 * TEL. 413/525-2332

**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183261 - SW-846 5035** | | | | | | | | | | |
| **Blank (B183261-BLK1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Acetone | ND | 0.10 | mg/Kg wet | | | | | | | |
| Acrylonitrile | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Benzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromodichloromethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromoform | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Bromomethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Butanone (MEK) | ND | 0.040 | mg/Kg wet | | | | | | | |
| n-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| sec-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| tert-Butylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Carbon Disulfide | ND | 0.0060 | mg/Kg wet | | | | | | | |
| Carbon Tetrachloride | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Chlorodibromomethane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Chloroethane | ND | 0.020 | mg/Kg wet | | | | | | | |
| Chloroform | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Chloromethane | ND | 0.010 | mg/Kg wet | | | | | | | |
| 2-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 4-Chlorotoluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Dibromomethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,4-Dichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,4-Dichloro-2-butene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Dichlorodifluoromethane (Freon 12) | ND | 0.020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloroethylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| cis-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| trans-1,2-Dichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3-Dichloropropane | ND | 0.0010 | mg/Kg wet | | | | | | | |
| 2,2-Dichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1-Dichloropropene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| cis-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| trans-1,3-Dichloropropene | ND | 0.0010 | mg/Kg wet | | | | | | | |
| Ethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 2-Hexanone (MBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Isopropylbenzene (Cumene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| p-Isopropyltoluene (p-Cymene) | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Methyl tert-Butyl Ether (MTBE) | ND | 0.0040 | mg/Kg wet | | | | | | | |
| Methylene Chloride | ND | 0.020 | mg/Kg wet | | | | | | | |
| 4-Methyl-2-pentanone (MIBK) | ND | 0.020 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| n-Propylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Styrene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | mg/Kg wet | | | | | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183261 - SW-846 5035** | | | | | | | | | | |
| **Blank (B183261-BLK1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Tetrachloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Tetrahydrofuran | ND | 0.010 | mg/Kg wet | | | | | | | V-16 |
| Toluene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,1-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Trichloroethylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Trichlorofluoromethane (Freon 11) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,2,3-Trichloropropane | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | ND | 0.010 | mg/Kg wet | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Vinyl Chloride | ND | 0.010 | mg/Kg wet | | | | | | | |
| m+p Xylene | ND | 0.0040 | mg/Kg wet | | | | | | | |
| o-Xylene | ND | 0.0020 | mg/Kg wet | | | | | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0504* | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | *0.0527* | | mg/Kg wet | 0.0500 | | 105 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0516* | | mg/Kg wet | 0.0500 | | 103 | 70-130 | | | |
| **LCS (B183261-BS1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| Acetone | 0.185 | 0.10 | mg/Kg wet | 0.200 | | 92.6 | 70-130 | | | |
| Acrylonitrile | 0.0258 | 0.0060 | mg/Kg wet | 0.0200 | | 129 | 70-130 | | | |
| Benzene | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.5 | 70-130 | | | |
| Bromobenzene | 0.0168 | 0.0020 | mg/Kg wet | 0.0200 | | 83.9 | 70-130 | | | |
| Bromodichloromethane | 0.0175 | 0.0020 | mg/Kg wet | 0.0200 | | 87.4 | 70-130 | | | |
| Bromoform | 0.0161 | 0.0020 | mg/Kg wet | 0.0200 | | 80.5 | 70-130 | | | |
| Bromomethane | 0.0193 | 0.010 | mg/Kg wet | 0.0200 | | 96.5 | 70-130 | | | |
| 2-Butanone (MEK) | 0.239 | 0.040 | mg/Kg wet | 0.200 | | 120 | 70-130 | | | |
| n-Butylbenzene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 93.1 | 70-130 | | | |
| sec-Butylbenzene | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| tert-Butylbenzene | 0.0207 | 0.0020 | mg/Kg wet | 0.0200 | | 104 | 70-130 | | | |
| Carbon Disulfide | 0.202 | 0.0060 | mg/Kg wet | 0.200 | | 101 | 70-130 | | | |
| Carbon Tetrachloride | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 95.2 | 70-130 | | | |
| Chlorobenzene | 0.0180 | 0.0020 | mg/Kg wet | 0.0200 | | 90.0 | 70-130 | | | |
| Chlorodibromomethane | 0.0188 | 0.0010 | mg/Kg wet | 0.0200 | | 93.9 | 70-130 | | | |
| Chloroethane | 0.0169 | 0.020 | mg/Kg wet | 0.0200 | | 84.7 | 70-130 | | | |
| Chloroform | 0.0187 | 0.0040 | mg/Kg wet | 0.0200 | | 93.4 | 70-130 | | | |
| Chloromethane | 0.0214 | 0.010 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| 2-Chlorotoluene | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.2 | 70-130 | | | |
| 4-Chlorotoluene | 0.0177 | 0.0020 | mg/Kg wet | 0.0200 | | 88.4 | 70-130 | | | |
| 1,2-Dibromo-3-chloropropane (DBCP) | 0.0188 | 0.0020 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | | | |
| 1,2-Dibromoethane (EDB) | 0.0190 | 0.0010 | mg/Kg wet | 0.0200 | | 94.9 | 70-130 | | | |
| Dibromomethane | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.2 | 70-130 | | | |
| 1,2-Dichlorobenzene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.2 | 70-130 | | | |
| 1,3-Dichlorobenzene | 0.0190 | 0.0020 | mg/Kg wet | 0.0200 | | 94.8 | 70-130 | | | |
| 1,4-Dichlorobenzene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.4 | 70-130 | | | |
| trans-1,4-Dichloro-2-butene | 0.0196 | 0.0040 | mg/Kg wet | 0.0200 | | 97.9 | 70-130 | | | |
| Dichlorodifluoromethane (Freon 12) | 0.0222 | 0.020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | | | |
| 1,1-Dichloroethane | 0.0215 | 0.0020 | mg/Kg wet | 0.0200 | | 108 | 70-130 | | | |
| 1,2-Dichloroethane | 0.0212 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| 1,1-Dichloroethylene | 0.0204 | 0.0040 | mg/Kg wet | 0.0200 | | 102 | 70-130 | | | |

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**QUALITY CONTROL**

**Volatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183261 - SW-846 5035** | | | | | | | | | | |
| **LCS (B183261-BS1)** | | | | Prepared & Analyzed: 08/03/17 | | | | | | |
| cis-1,2-Dichloroethylene | 0.0200 | 0.0020 | mg/Kg wet | 0.0200 | | 99.9 | 70-130 | | | |
| trans-1,2-Dichloroethylene | 0.0253 | 0.0020 | mg/Kg wet | 0.0200 | | 126 | 70-130 | | | |
| 1,2-Dichloropropane | 0.0223 | 0.0020 | mg/Kg wet | 0.0200 | | 111 | 70-130 | | | |
| 1,3-Dichloropropane | 0.0201 | 0.0010 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| 2,2-Dichloropropane | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.2 | 70-130 | | | |
| 1,1-Dichloropropene | 0.0185 | 0.0020 | mg/Kg wet | 0.0200 | | 92.4 | 70-130 | | | |
| cis-1,3-Dichloropropene | 0.0190 | 0.0010 | mg/Kg wet | 0.0200 | | 94.9 | 70-130 | | | |
| trans-1,3-Dichloropropene | 0.0179 | 0.0010 | mg/Kg wet | 0.0200 | | 89.4 | 70-130 | | | |
| Ethylbenzene | 0.0186 | 0.0020 | mg/Kg wet | 0.0200 | | 92.9 | 70-130 | | | |
| Hexachlorobutadiene | 0.0205 | 0.0020 | mg/Kg wet | 0.0200 | | 103 | 70-130 | | | |
| 2-Hexanone (MBK) | 0.229 | 0.020 | mg/Kg wet | 0.200 | | 114 | 70-130 | | | |
| Isopropylbenzene (Cumene) | 0.0193 | 0.0020 | mg/Kg wet | 0.0200 | | 96.5 | 70-130 | | | |
| p-Isopropyltoluene (p-Cymene) | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.0 | 70-130 | | | |
| Methyl tert-Butyl Ether (MTBE) | 0.0186 | 0.0040 | mg/Kg wet | 0.0200 | | 93.1 | 70-130 | | | |
| Methylene Chloride | 0.0233 | 0.020 | mg/Kg wet | 0.0200 | | 117 | 70-130 | | | |
| 4-Methyl-2-pentanone (MIBK) | 0.233 | 0.020 | mg/Kg wet | 0.200 | | 116 | 70-130 | | | |
| Naphthalene | 0.0162 | 0.0040 | mg/Kg wet | 0.0200 | | 80.9 | 70-130 | | | |
| n-Propylbenzene | 0.0184 | 0.0020 | mg/Kg wet | 0.0200 | | 92.1 | 70-130 | | | |
| Styrene | 0.0178 | 0.0020 | mg/Kg wet | 0.0200 | | 89.0 | 70-130 | | | |
| 1,1,1,2-Tetrachloroethane | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 91.2 | 70-130 | | | |
| 1,1,2,2-Tetrachloroethane | 0.0169 | 0.0010 | mg/Kg wet | 0.0200 | | 84.5 | 70-130 | | | |
| Tetrachloroethylene | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 107 | 70-130 | | | |
| Tetrahydrofuran | 0.0183 | 0.010 | mg/Kg wet | 0.0200 | | 91.6 | 70-130 | | | V-16 |
| Toluene | 0.0199 | 0.0020 | mg/Kg wet | 0.0200 | | 99.5 | 70-130 | | | |
| 1,2,3-Trichlorobenzene | 0.0168 | 0.0020 | mg/Kg wet | 0.0200 | | 83.8 | 70-130 | | | |
| 1,2,4-Trichlorobenzene | 0.0182 | 0.0020 | mg/Kg wet | 0.0200 | | 90.8 | 70-130 | | | |
| 1,1,1-Trichloroethane | 0.0213 | 0.0020 | mg/Kg wet | 0.0200 | | 106 | 70-130 | | | |
| 1,1,2-Trichloroethane | 0.0187 | 0.0020 | mg/Kg wet | 0.0200 | | 93.4 | 70-130 | | | |
| Trichloroethylene | 0.0203 | 0.0020 | mg/Kg wet | 0.0200 | | 101 | 70-130 | | | |
| Trichlorofluoromethane (Freon 11) | 0.0231 | 0.010 | mg/Kg wet | 0.0200 | | 116 | 70-130 | | | |
| 1,2,3-Trichloropropane | 0.0196 | 0.0020 | mg/Kg wet | 0.0200 | | 98.0 | 70-130 | | | |
| 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) | 0.0224 | 0.010 | mg/Kg wet | 0.0200 | | 112 | 70-130 | | | |
| 1,2,4-Trimethylbenzene | 0.0198 | 0.0020 | mg/Kg wet | 0.0200 | | 99.0 | 70-130 | | | |
| 1,3,5-Trimethylbenzene | 0.0194 | 0.0020 | mg/Kg wet | 0.0200 | | 96.8 | 70-130 | | | |
| Vinyl Chloride | 0.0188 | 0.010 | mg/Kg wet | 0.0200 | | 93.8 | 70-130 | | | |
| m+p Xylene | 0.0376 | 0.0040 | mg/Kg wet | 0.0400 | | 94.0 | 70-130 | | | |
| o-Xylene | 0.0183 | 0.0020 | mg/Kg wet | 0.0200 | | 91.4 | 70-130 | | | |
| Surrogate: 1,2-Dichloroethane-d4 | *0.0506* | | mg/Kg wet | 0.0500 | | 101 | 70-130 | | | |
| Surrogate: Toluene-d8 | *0.0531* | | mg/Kg wet | 0.0500 | | 106 | 70-130 | | | |
| Surrogate: 4-Bromofluorobenzene | *0.0520* | | mg/Kg wet | 0.0500 | | 104 | 70-130 | | | |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183689 - SW-846 3546** | | | | | | | | | | |
| **Blank (B183689-BLK1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| Acenaphthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Acenaphthylene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Aniline | ND | 0.34 | mg/Kg wet | | | | | | | |
| Anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(a)anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(a)pyrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Bis(2-chloroethoxy)methane | ND | 0.34 | mg/Kg wet | | | | | | | |
| Bis(2-chloroethyl)ether | ND | 0.34 | mg/Kg wet | | | | | | | |
| Bis(2-chloroisopropyl)ether | ND | 0.34 | mg/Kg wet | | | | | | | |
| Bis(2-Ethylhexyl)phthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Bromophenylphenylether | ND | 0.34 | mg/Kg wet | | | | | | | |
| Butylbenzylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| Carbazole | ND | 0.17 | mg/Kg wet | | | | | | | |
| 4-Chloroaniline | ND | 0.66 | mg/Kg wet | | | | | | | |
| 4-Chloro-3-methylphenol | ND | 0.66 | mg/Kg wet | | | | | | | |
| 2-Chloronaphthalene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Chlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Chlorophenylphenylether | ND | 0.34 | mg/Kg wet | | | | | | | |
| Chrysene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Dibenzofuran | ND | 0.34 | mg/Kg wet | | | | | | | |
| Di-n-butylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 3,3-Dichlorobenzidine | ND | 0.17 | mg/Kg wet | | | | | | | |
| 2,4-Dichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Diethylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2,4-Dimethylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Dimethylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4,6-Dinitro-2-methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2,4-Dinitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | |
| 2,4-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2,6-Dinitrotoluene | ND | 0.34 | mg/Kg wet | | | | | | | |
| Di-n-octylphthalate | ND | 0.34 | mg/Kg wet | | | | | | | |
| Fluoranthene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Fluorene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Hexachlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| Hexachlorobutadiene | ND | 0.34 | mg/Kg wet | | | | | | | |
| Hexachlorocyclopentadiene | ND | 0.34 | mg/Kg wet | | | | | | | |
| Hexachloroethane | ND | 0.34 | mg/Kg wet | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.17 | mg/Kg wet | | | | | | | |
| Isophorone | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Methylnaphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| 2-Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| 3/4-Methylphenol | ND | 0.34 | mg/Kg wet | | | | | | | |
| Naphthalene | ND | 0.17 | mg/Kg wet | | | | | | | |
| 2-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | |
| 3-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | |
| 4-Nitroaniline | ND | 0.34 | mg/Kg wet | | | | | | | |
| Nitrobenzene | ND | 0.34 | mg/Kg wet | | | | | | | |
| 2-Nitrophenol | ND | 0.34 | mg/Kg wet | | | | | | | |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183689 - SW-846 3546** | | | | | | | | | | | |
| **Blank (B183689-BLK1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | | |
| 4-Nitrophenol | ND | 0.66 | mg/Kg wet | | | | | | | | |
| N-Nitrosodiphenylamine | ND | 0.34 | mg/Kg wet | | | | | | | | |
| N-Nitrosodi-n-propylamine | ND | 0.34 | mg/Kg wet | | | | | | | | |
| Pentachloronitrobenzene | ND | 0.34 | mg/Kg wet | | | | | | | V-16 | |
| Pentachlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | | |
| Phenanthrene | ND | 0.17 | mg/Kg wet | | | | | | | | |
| Phenol | ND | 0.34 | mg/Kg wet | | | | | | | | |
| Pyrene | ND | 0.17 | mg/Kg wet | | | | | | | | |
| Pyridine | ND | 0.34 | mg/Kg wet | | | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 0.34 | mg/Kg wet | | | | | | | | |
| 2,4,5-Trichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | | |
| 2,4,6-Trichlorophenol | ND | 0.34 | mg/Kg wet | | | | | | | | |
| Surrogate: 2-Fluorophenol | *5.26* | | mg/Kg wet | 6.67 | | 79.0 | 30-130 | | | | |
| Surrogate: Phenol-d6 | *5.05* | | mg/Kg wet | 6.67 | | 75.7 | 30-130 | | | | |
| Surrogate: Nitrobenzene-d5 | *2.74* | | mg/Kg wet | 3.33 | | 82.1 | 30-130 | | | | |
| Surrogate: 2-Fluorobiphenyl | *2.84* | | mg/Kg wet | 3.33 | | 85.2 | 30-130 | | | | |
| Surrogate: 2,4,6-Tribromophenol | *6.74* | | mg/Kg wet | 6.67 | | 101 | 30-130 | | | | |
| Surrogate: p-Terphenyl-d14 | *3.47* | | mg/Kg wet | 3.33 | | 104 | 30-130 | | | | |
| **LCS (B183689-BS1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | | |
| Acenaphthene | 1.24 | 0.17 | mg/Kg wet | 1.67 | | 74.2 | 40-140 | | | | |
| Acenaphthylene | 1.23 | 0.17 | mg/Kg wet | 1.67 | | 73.9 | 40-140 | | | | |
| Aniline | 1.03 | 0.34 | mg/Kg wet | 1.67 | | 61.8 | 40-140 | | | | † |
| Anthracene | 1.29 | 0.17 | mg/Kg wet | 1.67 | | 77.6 | 40-140 | | | | |
| Benzo(a)anthracene | 1.35 | 0.17 | mg/Kg wet | 1.67 | | 80.8 | 40-140 | | | | |
| Benzo(a)pyrene | 1.36 | 0.17 | mg/Kg wet | 1.67 | | 81.7 | 40-140 | | | | |
| Benzo(b)fluoranthene | 1.17 | 0.17 | mg/Kg wet | 1.67 | | 70.1 | 40-140 | | | | |
| Benzo(g,h,i)perylene | 1.64 | 0.17 | mg/Kg wet | 1.67 | | 98.2 | 40-140 | | | | |
| Benzo(k)fluoranthene | 1.29 | 0.17 | mg/Kg wet | 1.67 | | 77.1 | 40-140 | | | | |
| Bis(2-chloroethoxy)methane | 1.27 | 0.34 | mg/Kg wet | 1.67 | | 76.1 | 40-140 | | | | |
| Bis(2-chloroethyl)ether | 1.08 | 0.34 | mg/Kg wet | 1.67 | | 65.1 | 40-140 | | | | |
| Bis(2-chloroisopropyl)ether | 1.10 | 0.34 | mg/Kg wet | 1.67 | | 65.9 | 40-140 | | | | |
| Bis(2-Ethylhexyl)phthalate | 1.55 | 0.34 | mg/Kg wet | 1.67 | | 93.2 | 40-140 | | | | |
| 4-Bromophenylphenylether | 1.40 | 0.34 | mg/Kg wet | 1.67 | | 83.7 | 40-140 | | | | |
| Butylbenzylphthalate | 1.48 | 0.34 | mg/Kg wet | 1.67 | | 88.7 | 40-140 | | | | |
| Carbazole | 1.25 | 0.17 | mg/Kg wet | 1.67 | | 75.2 | 40-140 | | | | |
| 4-Chloroaniline | 0.988 | 0.66 | mg/Kg wet | 1.67 | | 59.3 | 40-140 | | | | † |
| 4-Chloro-3-methylphenol | 1.35 | 0.66 | mg/Kg wet | 1.67 | | 81.0 | 30-130 | | | | |
| 2-Chloronaphthalene | 1.04 | 0.34 | mg/Kg wet | 1.67 | | 62.3 | 40-140 | | | | |
| 2-Chlorophenol | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.1 | 30-130 | | | | |
| 4-Chlorophenylphenylether | 1.36 | 0.34 | mg/Kg wet | 1.67 | | 81.6 | 40-140 | | | | |
| Chrysene | 1.34 | 0.17 | mg/Kg wet | 1.67 | | 80.2 | 40-140 | | | | |
| Dibenz(a,h)anthracene | 1.58 | 0.17 | mg/Kg wet | 1.67 | | 94.6 | 40-140 | | | | |
| Dibenzofuran | 1.31 | 0.34 | mg/Kg wet | 1.67 | | 78.8 | 40-140 | | | | |
| Di-n-butylphthalate | 1.34 | 0.34 | mg/Kg wet | 1.67 | | 80.7 | 40-140 | | | | |
| 3,3-Dichlorobenzidine | 0.978 | 0.17 | mg/Kg wet | 1.67 | | 58.7 | 40-140 | | | | † |
| 2,4-Dichlorophenol | 1.29 | 0.34 | mg/Kg wet | 1.67 | | 77.4 | 30-130 | | | | |
| Diethylphthalate | 1.40 | 0.34 | mg/Kg wet | 1.67 | | 84.1 | 40-140 | | | | |
| 2,4-Dimethylphenol | 1.28 | 0.34 | mg/Kg wet | 1.67 | | 76.9 | 30-130 | | | | |
| Dimethylphthalate | 1.34 | 0.34 | mg/Kg wet | 1.67 | | 80.4 | 40-140 | | | | |
| 4,6-Dinitro-2-methylphenol | 1.07 | 0.34 | mg/Kg wet | 1.67 | | 64.5 | 30-130 | | | | |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183689 - SW-846 3546** | | | | | | | | | | | |
| **LCS (B183689-BS1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | | |
| 2,4-Dinitrophenol | 0.782 | 0.66 | mg/Kg wet | 1.67 | | 46.9 | 30-130 | | | | |
| 2,4-Dinitrotoluene | 1.22 | 0.34 | mg/Kg wet | 1.67 | | 73.2 | 40-140 | | | | |
| 2,6-Dinitrotoluene | 1.32 | 0.34 | mg/Kg wet | 1.67 | | 79.3 | 40-140 | | | | |
| Di-n-octylphthalate | 1.41 | 0.34 | mg/Kg wet | 1.67 | | 84.5 | 40-140 | | | | |
| Fluoranthene | 1.27 | 0.17 | mg/Kg wet | 1.67 | | 75.9 | 40-140 | | | | |
| Fluorene | 1.29 | 0.17 | mg/Kg wet | 1.67 | | 77.2 | 40-140 | | | | |
| Hexachlorobenzene | 1.35 | 0.34 | mg/Kg wet | 1.67 | | 81.1 | 40-140 | | | | |
| Hexachlorobutadiene | 1.29 | 0.34 | mg/Kg wet | 1.67 | | 77.5 | 40-140 | | | | |
| Hexachlorocyclopentadiene | 0.856 | 0.34 | mg/Kg wet | 1.67 | | 51.4 | 30-140 | | | | |
| Hexachloroethane | 1.11 | 0.34 | mg/Kg wet | 1.67 | | 66.8 | 40-140 | | | | |
| Indeno(1,2,3-cd)pyrene | 1.55 | 0.17 | mg/Kg wet | 1.67 | | 92.8 | 40-140 | | | | |
| Isophorone | 1.27 | 0.34 | mg/Kg wet | 1.67 | | 75.9 | 40-140 | | | | |
| 2-Methylnaphthalene | 1.26 | 0.17 | mg/Kg wet | 1.67 | | 75.4 | 40-140 | | | | |
| 2-Methylphenol | 1.11 | 0.34 | mg/Kg wet | 1.67 | | 66.7 | 30-130 | | | | |
| 3/4-Methylphenol | 1.13 | 0.34 | mg/Kg wet | 1.67 | | 67.8 | 30-130 | | | | |
| Naphthalene | 1.19 | 0.17 | mg/Kg wet | 1.67 | | 71.1 | 40-140 | | | | |
| 2-Nitroaniline | 1.32 | 0.34 | mg/Kg wet | 1.67 | | 79.1 | 40-140 | | | | |
| 3-Nitroaniline | 1.13 | 0.34 | mg/Kg wet | 1.67 | | 67.9 | 40-140 | | | | † |
| 4-Nitroaniline | 1.23 | 0.34 | mg/Kg wet | 1.67 | | 73.9 | 40-140 | | | | |
| Nitrobenzene | 1.23 | 0.34 | mg/Kg wet | 1.67 | | 73.5 | 40-140 | | | | |
| 2-Nitrophenol | 1.20 | 0.34 | mg/Kg wet | 1.67 | | 72.1 | 30-130 | | | | |
| 4-Nitrophenol | 1.06 | 0.66 | mg/Kg wet | 1.67 | | 63.3 | 10-130 | | | | |
| N-Nitrosodiphenylamine | 1.76 | 0.34 | mg/Kg wet | 1.67 | | 105 | 40-140 | | | | |
| N-Nitrosodi-n-propylamine | 1.15 | 0.34 | mg/Kg wet | 1.67 | | 69.2 | 40-140 | | | | |
| Pentachloronitrobenzene | 1.45 | 0.34 | mg/Kg wet | 1.67 | | 87.1 | 40-140 | | | V-16 | |
| Pentachlorophenol | 0.872 | 0.34 | mg/Kg wet | 1.67 | | 52.3 | 30-130 | | | | |
| Phenanthrene | 1.28 | 0.17 | mg/Kg wet | 1.67 | | 77.0 | 40-140 | | | | |
| Phenol | 1.12 | 0.34 | mg/Kg wet | 1.67 | | 67.1 | 20-130 | | | | |
| Pyrene | 1.30 | 0.17 | mg/Kg wet | 1.67 | | 77.8 | 40-140 | | | | |
| Pyridine | 0.832 | 0.34 | mg/Kg wet | 1.67 | | 49.9 | 10-140 | | | | † |
| 1,2,4,5-Tetrachlorobenzene | 1.34 | 0.34 | mg/Kg wet | 1.67 | | 80.4 | 40-140 | | | | |
| 1,2,4-Trichlorobenzene | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.4 | 40-140 | | | | |
| 2,4,5-Trichlorophenol | 1.30 | 0.34 | mg/Kg wet | 1.67 | | 78.0 | 30-130 | | | | |
| 2,4,6-Trichlorophenol | 1.31 | 0.34 | mg/Kg wet | 1.67 | | 78.8 | 30-130 | | | | |
| Surrogate: 2-Fluorophenol | *5.54* | | mg/Kg wet | 6.67 | | 83.1 | 30-130 | | | | |
| Surrogate: Phenol-d6 | *5.42* | | mg/Kg wet | 6.67 | | 81.2 | 30-130 | | | | |
| Surrogate: Nitrobenzene-d5 | *2.99* | | mg/Kg wet | 3.33 | | 89.7 | 30-130 | | | | |
| Surrogate: 2-Fluorobiphenyl | *3.15* | | mg/Kg wet | 3.33 | | 94.5 | 30-130 | | | | |
| Surrogate: 2,4,6-Tribromophenol | *7.51* | | mg/Kg wet | 6.67 | | 113 | 30-130 | | | | |
| Surrogate: p-Terphenyl-d14 | *3.40* | | mg/Kg wet | 3.33 | | 102 | 30-130 | | | | |
| **LCS Dup (B183689-BSD1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | | |
| Acenaphthene | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 68.7 | 40-140 | 7.64 | 30 | | |
| Acenaphthylene | 1.14 | 0.17 | mg/Kg wet | 1.67 | | 68.4 | 40-140 | 7.81 | 30 | | |
| Aniline | 0.961 | 0.34 | mg/Kg wet | 1.67 | | 57.6 | 40-140 | 6.93 | 50 | | † ‡ |
| Anthracene | 1.18 | 0.17 | mg/Kg wet | 1.67 | | 70.5 | 40-140 | 9.53 | 30 | | |
| Benzo(a)anthracene | 1.24 | 0.17 | mg/Kg wet | 1.67 | | 74.2 | 40-140 | 8.54 | 30 | | |
| Benzo(a)pyrene | 1.26 | 0.17 | mg/Kg wet | 1.67 | | 75.8 | 40-140 | 7.49 | 30 | | |
| Benzo(b)fluoranthene | 1.16 | 0.17 | mg/Kg wet | 1.67 | | 69.8 | 40-140 | 0.515 | 30 | | |
| Benzo(g,h,i)perylene | 1.50 | 0.17 | mg/Kg wet | 1.67 | | 90.0 | 40-140 | 8.76 | 30 | | |
| Benzo(k)fluoranthene | 1.17 | 0.17 | mg/Kg wet | 1.67 | | 70.3 | 40-140 | 9.28 | 30 | | |
| Bis(2-chloroethoxy)methane | 1.14 | 0.34 | mg/Kg wet | 1.67 | | 68.2 | 40-140 | 10.9 | 30 | | |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183689 - SW-846 3546** | | | | | | | | | | |
| **LCS Dup (B183689-BSD1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| Bis(2-chloroethyl)ether | 0.986 | 0.34 | mg/Kg wet | 1.67 | | 59.2 | 40-140 | 9.56 | 30 | |
| Bis(2-chloroisopropyl)ether | 0.953 | 0.34 | mg/Kg wet | 1.67 | | 57.2 | 40-140 | 14.3 | 30 | |
| Bis(2-Ethylhexyl)phthalate | 1.40 | 0.34 | mg/Kg wet | 1.67 | | 84.2 | 40-140 | 10.1 | 30 | |
| 4-Bromophenylphenylether | 1.29 | 0.34 | mg/Kg wet | 1.67 | | 77.5 | 40-140 | 7.66 | 30 | |
| Butylbenzylphthalate | 1.32 | 0.34 | mg/Kg wet | 1.67 | | 79.4 | 40-140 | 11.1 | 30 | |
| Carbazole | 1.15 | 0.17 | mg/Kg wet | 1.67 | | 68.9 | 40-140 | 8.63 | 30 | |
| 4-Chloroaniline | 0.936 | 0.66 | mg/Kg wet | 1.67 | | 56.2 | 40-140 | 5.44 | 30 | † |
| 4-Chloro-3-methylphenol | 1.22 | 0.66 | mg/Kg wet | 1.67 | | 72.9 | 30-130 | 10.5 | 30 | |
| 2-Chloronaphthalene | 0.961 | 0.34 | mg/Kg wet | 1.67 | | 57.6 | 40-140 | 7.83 | 30 | |
| 2-Chlorophenol | 1.07 | 0.34 | mg/Kg wet | 1.67 | | 64.3 | 30-130 | 8.60 | 30 | |
| 4-Chlorophenylphenylether | 1.28 | 0.34 | mg/Kg wet | 1.67 | | 76.6 | 40-140 | 6.32 | 30 | |
| Chrysene | 1.22 | 0.17 | mg/Kg wet | 1.67 | | 73.0 | 40-140 | 9.43 | 30 | |
| Dibenz(a,h)anthracene | 1.45 | 0.17 | mg/Kg wet | 1.67 | | 86.8 | 40-140 | 8.60 | 30 | |
| Dibenzofuran | 1.22 | 0.34 | mg/Kg wet | 1.67 | | 73.3 | 40-140 | 7.23 | 30 | |
| Di-n-butylphthalate | 1.23 | 0.34 | mg/Kg wet | 1.67 | | 73.6 | 40-140 | 9.20 | 30 | |
| 3,3-Dichlorobenzidine | 0.957 | 0.17 | mg/Kg wet | 1.67 | | 57.4 | 40-140 | 2.17 | 30 | † ‡ |
| 2,4-Dichlorophenol | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.2 | 30-130 | 8.29 | 30 | |
| Diethylphthalate | 1.29 | 0.34 | mg/Kg wet | 1.67 | | 77.6 | 40-140 | 8.06 | 30 | |
| 2,4-Dimethylphenol | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.2 | 30-130 | 9.14 | 30 | |
| Dimethylphthalate | 1.24 | 0.34 | mg/Kg wet | 1.67 | | 74.1 | 40-140 | 8.08 | 50 | |
| 4,6-Dinitro-2-methylphenol | 0.998 | 0.34 | mg/Kg wet | 1.67 | | 59.9 | 30-130 | 7.43 | 50 | |
| 2,4-Dinitrophenol | 0.646 | 0.66 | mg/Kg wet | 1.67 | | 38.8 | 30-130 | 19.1 | 50 | |
| 2,4-Dinitrotoluene | 1.11 | 0.34 | mg/Kg wet | 1.67 | | 66.5 | 40-140 | 9.59 | 30 | |
| 2,6-Dinitrotoluene | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.4 | 40-140 | 10.5 | 30 | |
| Di-n-octylphthalate | 1.28 | 0.34 | mg/Kg wet | 1.67 | | 76.5 | 40-140 | 9.91 | 30 | |
| Fluoranthene | 1.16 | 0.17 | mg/Kg wet | 1.67 | | 69.9 | 40-140 | 8.28 | 30 | |
| Fluorene | 1.19 | 0.17 | mg/Kg wet | 1.67 | | 71.6 | 40-140 | 7.58 | 30 | |
| Hexachlorobenzene | 1.25 | 0.34 | mg/Kg wet | 1.67 | | 75.0 | 40-140 | 7.89 | 30 | |
| Hexachlorobutadiene | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.2 | 40-140 | 8.50 | 30 | |
| Hexachlorocyclopentadiene | 0.818 | 0.34 | mg/Kg wet | 1.67 | | 49.1 | 30-140 | 4.62 | 50 | |
| Hexachloroethane | 1.03 | 0.34 | mg/Kg wet | 1.67 | | 61.6 | 40-140 | 8.16 | 50 | |
| Indeno(1,2,3-cd)pyrene | 1.40 | 0.17 | mg/Kg wet | 1.67 | | 83.9 | 40-140 | 10.1 | 50 | |
| Indeno(1,2,3-cd)pyrene | 1.40 | 0.17 | mg/Kg wet | 1.67 | | 83.9 | 40-140 | 10.1 | 30 | |
| Isophorone | 1.12 | 0.34 | mg/Kg wet | 1.67 | | 67.1 | 40-140 | 12.4 | 30 | |
| 2-Methylnaphthalene | 1.13 | 0.17 | mg/Kg wet | 1.67 | | 67.9 | 40-140 | 10.5 | 30 | |
| 2-Methylphenol | 0.991 | 0.34 | mg/Kg wet | 1.67 | | 59.5 | 30-130 | 11.5 | 30 | |
| 3/4-Methylphenol | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 61.1 | 30-130 | 10.3 | 30 | |
| Naphthalene | 1.08 | 0.17 | mg/Kg wet | 1.67 | | 64.8 | 40-140 | 9.36 | 30 | |
| 2-Nitroaniline | 1.17 | 0.34 | mg/Kg wet | 1.67 | | 70.3 | 40-140 | 11.8 | 30 | |
| 3-Nitroaniline | 1.09 | 0.34 | mg/Kg wet | 1.67 | | 65.6 | 40-140 | 3.41 | 30 | † |
| 4-Nitroaniline | 1.10 | 0.34 | mg/Kg wet | 1.67 | | 65.9 | 40-140 | 11.4 | 30 | |
| Nitrobenzene | 1.08 | 0.34 | mg/Kg wet | 1.67 | | 64.8 | 40-140 | 12.6 | 30 | |
| 2-Nitrophenol | 1.10 | 0.34 | mg/Kg wet | 1.67 | | 66.0 | 30-130 | 8.81 | 30 | |
| 4-Nitrophenol | 0.924 | 0.66 | mg/Kg wet | 1.67 | | 55.5 | 10-130 | 13.3 | 50 | ‡ |
| N-Nitrosodiphenylamine | 1.62 | 0.34 | mg/Kg wet | 1.67 | | 97.2 | 40-140 | 7.96 | 30 | |
| N-Nitrosodi-n-propylamine | 1.02 | 0.34 | mg/Kg wet | 1.67 | | 61.3 | 40-140 | 12.0 | 30 | |
| Pentachloronitrobenzene | 1.40 | 0.34 | mg/Kg wet | 1.67 | | 84.3 | 40-140 | 3.31 | 30 | V-16 |
| Pentachlorophenol | 0.799 | 0.34 | mg/Kg wet | 1.67 | | 47.9 | 30-130 | 8.82 | 50 | |
| Phenanthrene | 1.18 | 0.17 | mg/Kg wet | 1.67 | | 70.5 | 40-140 | 8.84 | 30 | |
| Phenol | 1.01 | 0.34 | mg/Kg wet | 1.67 | | 60.4 | 20-130 | 10.5 | 30 | |
| Pyrene | 1.18 | 0.17 | mg/Kg wet | 1.67 | | 70.7 | 40-140 | 9.48 | 30 | |
| Pyridine | 0.753 | 0.34 | mg/Kg wet | 1.67 | | 45.2 | 10-140 | 10.0 | 50 | † |

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**QUALITY CONTROL**

**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183689 - SW-846 3546** | | | | | | | | | | |
| **LCS Dup (B183689-BSD1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| 1,2,4,5-Tetrachlorobenzene | 1.27 | 0.34 | mg/Kg wet | 1.67 | | 76.0 | 40-140 | 5.65 | 30 | |
| 1,2,4-Trichlorobenzene | 1.06 | 0.34 | mg/Kg wet | 1.67 | | 63.7 | 40-140 | 11.4 | 30 | |
| 2,4,5-Trichlorophenol | 1.19 | 0.34 | mg/Kg wet | 1.67 | | 71.4 | 30-130 | 8.80 | 30 | |
| 2,4,6-Trichlorophenol | 1.23 | 0.34 | mg/Kg wet | 1.67 | | 73.6 | 30-130 | 6.83 | 50 | |
| Surrogate: 2-Fluorophenol | *5.03* | | mg/Kg wet | 6.67 | | 75.4 | 30-130 | | | |
| Surrogate: Phenol-d6 | *4.86* | | mg/Kg wet | 6.67 | | 72.8 | 30-130 | | | |
| Surrogate: Nitrobenzene-d5 | *2.66* | | mg/Kg wet | 3.33 | | 79.8 | 30-130 | | | |
| Surrogate: 2-Fluorobiphenyl | *2.94* | | mg/Kg wet | 3.33 | | 88.1 | 30-130 | | | |
| Surrogate: 2,4,6-Tribromophenol | *7.02* | | mg/Kg wet | 6.67 | | 105 | 30-130 | | | |
| Surrogate: p-Terphenyl-d14 | *3.11* | | mg/Kg wet | 3.33 | | 93.4 | 30-130 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183543 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183543-BLK1)** | | | | Prepared: 08/07/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 | ND | 0.10 | mg/Kg | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.10 | mg/Kg | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.901* | | mg/Kg | 1.00 | | 90.1 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.970* | | mg/Kg | 1.00 | | 97.0 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.925* | | mg/Kg | 1.00 | | 92.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.991* | | mg/Kg | 1.00 | | 99.1 | 30-150 | | | |
| **LCS (B183543-BS1)** | | | | Prepared: 08/07/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | 0.99 | 0.10 | mg/Kg | 1.00 | | 99.4 | 40-140 | | | |
| Aroclor-1016 [2C] | 1.0 | 0.10 | mg/Kg | 1.00 | | 103 | 40-140 | | | |
| Aroclor-1260 | 0.91 | 0.10 | mg/Kg | 1.00 | | 90.9 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.91 | 0.10 | mg/Kg | 1.00 | | 91.2 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.945* | | mg/Kg | 1.00 | | 94.5 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *1.01* | | mg/Kg | 1.00 | | 101 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.956* | | mg/Kg | 1.00 | | 95.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.04* | | mg/Kg | 1.00 | | 104 | 30-150 | | | |
| **LCS Dup (B183543-BSD1)** | | | | Prepared: 08/07/17 Analyzed: 08/10/17 | | | | | | |
| Aroclor-1016 | 1.0 | 0.10 | mg/Kg | 1.00 | | 100 | 40-140 | 0.916 | 30 | |
| Aroclor-1016 [2C] | 1.0 | 0.10 | mg/Kg | 1.00 | | 103 | 40-140 | 0.551 | 30 | |
| Aroclor-1260 | 0.90 | 0.10 | mg/Kg | 1.00 | | 89.7 | 40-140 | 1.34 | 30 | |
| Aroclor-1260 [2C] | 0.90 | 0.10 | mg/Kg | 1.00 | | 90.4 | 40-140 | 0.890 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.912* | | mg/Kg | 1.00 | | 91.2 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.968* | | mg/Kg | 1.00 | | 96.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.957* | | mg/Kg | 1.00 | | 95.7 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *1.03* | | mg/Kg | 1.00 | | 103 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183543 - SW-846 3540C** | | | | | | | | | | |
| **Matrix Spike (B183543-MS1)** | | **Source: 17H0064-01** | | Prepared: 08/07/17 Analyzed: 08/11/17 | | | | | | |
| Aroclor-1016 | 0.78 | 0.085 | mg/Kg | 0.851 | ND | 91.9 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.88 | 0.085 | mg/Kg | 0.851 | ND | 104 | 40-140 | | | |
| Aroclor-1260 | 0.76 | 0.085 | mg/Kg | 0.851 | ND | 89.1 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.80 | 0.085 | mg/Kg | 0.851 | ND | 93.7 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.807* | | mg/Kg | 0.851 | | 94.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.884* | | mg/Kg | 0.851 | | 104 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.686* | | mg/Kg | 0.851 | | 80.6 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.772* | | mg/Kg | 0.851 | | 90.7 | 30-150 | | | |
| **Matrix Spike Dup (B183543-MSD1)** | | **Source: 17H0064-01** | | Prepared: 08/07/17 Analyzed: 08/11/17 | | | | | | |
| Aroclor-1016 | 0.74 | 0.082 | mg/Kg | 0.823 | ND | 89.5 | 40-140 | 5.91 | 50 | |
| Aroclor-1016 [2C] | 0.81 | 0.082 | mg/Kg | 0.823 | ND | 98.9 | 40-140 | 8.11 | 50 | |
| Aroclor-1260 | 0.71 | 0.082 | mg/Kg | 0.823 | ND | 86.0 | 40-140 | 6.90 | 50 | |
| Aroclor-1260 [2C] | 0.74 | 0.082 | mg/Kg | 0.823 | ND | 90.0 | 40-140 | 7.43 | 50 | |
| Surrogate: Decachlorobiphenyl | *0.764* | | mg/Kg | 0.823 | | 92.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.828* | | mg/Kg | 0.823 | | 101 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.635* | | mg/Kg | 0.823 | | 77.2 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.712* | | mg/Kg | 0.823 | | 86.5 | 30-150 | | | |
| **Batch B183729 - SW-846 3540C** | | | | | | | | | | |
| **Blank (B183729-BLK1)** | | | | Prepared: 08/09/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1016 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1221 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1232 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1242 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1248 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1254 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1260 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1262 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 | ND | 0.020 | mg/Kg wet | | | | | | | |
| Aroclor-1268 [2C] | ND | 0.020 | mg/Kg wet | | | | | | | |
| Surrogate: Decachlorobiphenyl | *0.170* | | mg/Kg wet | 0.200 | | 84.8 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.185* | | mg/Kg wet | 0.200 | | 92.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.171* | | mg/Kg wet | 0.200 | | 85.4 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.174* | | mg/Kg wet | 0.200 | | 87.0 | 30-150 | | | |

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**QUALITY CONTROL**

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183729 - SW-846 3540C** | | | | | | | | | | |
| **LCS (B183729-BS1)** | | | | Prepared: 08/09/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.18 | 0.020 | mg/Kg wet | 0.200 | | 89.4 | 40-140 | | | |
| Aroclor-1016 [2C] | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 95.8 | 40-140 | | | |
| Aroclor-1260 | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 82.5 | 40-140 | | | |
| Aroclor-1260 [2C] | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 85.3 | 40-140 | | | |
| Surrogate: Decachlorobiphenyl | *0.201* | | mg/Kg wet | 0.200 | | 100 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.218* | | mg/Kg wet | 0.200 | | 109 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.177* | | mg/Kg wet | 0.200 | | 88.5 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.182* | | mg/Kg wet | 0.200 | | 91.1 | 30-150 | | | |
| **LCS Dup (B183729-BSD1)** | | | | Prepared: 08/09/17 Analyzed: 08/24/17 | | | | | | |
| Aroclor-1016 | 0.17 | 0.020 | mg/Kg wet | 0.200 | | 87.1 | 40-140 | 2.56 | 30 | |
| Aroclor-1016 [2C] | 0.19 | 0.020 | mg/Kg wet | 0.200 | | 93.7 | 40-140 | 2.22 | 30 | |
| Aroclor-1260 | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 79.3 | 40-140 | 4.01 | 30 | |
| Aroclor-1260 [2C] | 0.16 | 0.020 | mg/Kg wet | 0.200 | | 81.8 | 40-140 | 4.10 | 30 | |
| Surrogate: Decachlorobiphenyl | *0.185* | | mg/Kg wet | 0.200 | | 92.6 | 30-150 | | | |
| Surrogate: Decachlorobiphenyl [2C] | *0.201* | | mg/Kg wet | 0.200 | | 101 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene | *0.172* | | mg/Kg wet | 0.200 | | 85.8 | 30-150 | | | |
| Surrogate: Tetrachloro-m-xylene [2C] | *0.175* | | mg/Kg wet | 0.200 | | 87.5 | 30-150 | | | |

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**QUALITY CONTROL**

**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183688 - SW-846 3546** | | | | | | | | | | |
| **Blank (B183688-BLK1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| CT ETPH | ND | 10 | mg/Kg wet | | | | | | | |
| Surrogate: o-Terphenyl | *2.64* | | mg/Kg wet | 3.33 | | 79.3 | 50-150 | | | |
| **LCS (B183688-BS1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| CT ETPH | 22.0 | 10 | mg/Kg wet | 33.3 | | 66.1 | 60-120 | | | |
| Surrogate: o-Terphenyl | *2.66* | | mg/Kg wet | 3.33 | | 79.9 | 50-150 | | | |
| **LCS Dup (B183688-BSD1)** | | | | Prepared: 08/09/17 Analyzed: 08/10/17 | | | | | | |
| CT ETPH | 22.0 | 10 | mg/Kg wet | 33.3 | | 66.1 | 60-120 | 0.00241 | 30 | |
| Surrogate: o-Terphenyl | *2.51* | | mg/Kg wet | 3.33 | | 75.4 | 50-150 | | | |

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183537 - SW-846 7471** | | | | | | | | | | |
| **Blank (B183537-BLK1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Mercury | ND | 0.025 | mg/Kg wet | | | | | | | |
| **LCS (B183537-BS1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Mercury | 9.14 | 1.9 | mg/Kg wet | 9.36 | | 97.6 | 73.7-126.3 | | | |
| **LCS Dup (B183537-BSD1)** | | | | Prepared: 08/08/17 Analyzed: 08/10/17 | | | | | | |
| Mercury | 8.96 | 1.9 | mg/Kg wet | 9.36 | | 95.7 | 73.7-126.3 | 1.95 | 30 | |
| **Batch B183630 - SW-846 3050B** | | | | | | | | | | |
| **Blank (B183630-BLK1)** | | | | Prepared: 08/08/17 Analyzed: 08/09/17 | | | | | | |
| Antimony | ND | 2.5 | mg/Kg wet | | | | | | | |
| Arsenic | ND | 2.5 | mg/Kg wet | | | | | | | |
| Barium | ND | 2.5 | mg/Kg wet | | | | | | | |
| Beryllium | ND | 0.25 | mg/Kg wet | | | | | | | |
| Cadmium | ND | 0.25 | mg/Kg wet | | | | | | | |
| Chromium | ND | 0.50 | mg/Kg wet | | | | | | | |
| Copper | ND | 0.50 | mg/Kg wet | | | | | | | |
| Lead | ND | 0.75 | mg/Kg wet | | | | | | | |
| Nickel | ND | 0.50 | mg/Kg wet | | | | | | | |
| Selenium | ND | 5.0 | mg/Kg wet | | | | | | | |
| Silver | ND | 0.50 | mg/Kg wet | | | | | | | |
| Thallium | ND | 2.5 | mg/Kg wet | | | | | | | |
| Vanadium | ND | 1.0 | mg/Kg wet | | | | | | | |
| Zinc | 1.6 | 1.0 | mg/Kg wet | | | | | | | B |
| **LCS (B183630-BS1)** | | | | Prepared: 08/08/17 Analyzed: 08/09/17 | | | | | | |
| Antimony | 71.2 | 5.0 | mg/Kg wet | 88.2 | | 80.7 | 0-210.3 | | | |
| Arsenic | 51.9 | 5.0 | mg/Kg wet | 57.0 | | 91.0 | 77.8-122.1 | | | |
| Barium | 107 | 5.0 | mg/Kg wet | 110 | | 96.8 | 82-117.4 | | | |
| Beryllium | 69.6 | 0.50 | mg/Kg wet | 67.5 | | 103 | 82.3-117.7 | | | |
| Cadmium | 78.1 | 0.50 | mg/Kg wet | 77.8 | | 100 | 81.9-118.2 | | | |
| Chromium | 64.8 | 1.0 | mg/Kg wet | 65.0 | | 99.7 | 78.7-120.6 | | | |
| Copper | 57.0 | 1.0 | mg/Kg wet | 56.4 | | 101 | 80.4-119.6 | | | |
| Lead | 76.0 | 1.5 | mg/Kg wet | 85.6 | | 88.8 | 82.4-117.8 | | | |
| Nickel | 60.1 | 1.0 | mg/Kg wet | 61.3 | | 98.1 | 82.2-117.8 | | | |
| Selenium | 69.6 | 10 | mg/Kg wet | 78.9 | | 88.3 | 77.1-122.3 | | | |
| Silver | 53.0 | 1.0 | mg/Kg wet | 54.2 | | 97.7 | 74.3-125.4 | | | |
| Thallium | 164 | 5.0 | mg/Kg wet | 178 | | 92.1 | 78.2-121.6 | | | |
| Vanadium | 49.6 | 2.0 | mg/Kg wet | 56.3 | | 88.2 | 64.8-135.2 | | | |
| Zinc | 200 | 2.0 | mg/Kg wet | 198 | | 101 | 79.7-120.8 | | | B |

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**QUALITY CONTROL**

**Metals Analyses (Total) - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | | %REC Limits | RPD | RPD Limit | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|
| **Batch B183630 - SW-846 3050B** | | | | | | | | | | | |
| **LCS Dup (B183630-BSD1)** | | | | Prepared: 08/08/17 Analyzed: 08/09/17 | | | | | | | |
| Antimony | 74.8 | 5.0 | mg/Kg wet | 88.2 | | 84.8 | | 0-210.3 | 4.95 | 30 | |
| Arsenic | 54.3 | 5.0 | mg/Kg wet | 57.0 | | 95.3 | | 77.8-122.1 | 4.65 | 30 | |
| Barium | 109 | 5.0 | mg/Kg wet | 110 | | 98.7 | | 82-117.4 | 1.86 | 30 | |
| Beryllium | 67.3 | 0.50 | mg/Kg wet | 67.5 | | 99.7 | | 82.3-117.7 | 3.42 | 30 | |
| Cadmium | 83.7 | 0.50 | mg/Kg wet | 77.8 | | 108 | | 81.9-118.2 | 6.98 | 30 | |
| Chromium | 67.6 | 0.99 | mg/Kg wet | 65.0 | | 104 | | 78.7-120.6 | 4.33 | 30 | |
| Copper | 58.9 | 0.99 | mg/Kg wet | 56.4 | | 104 | | 80.4-119.6 | 3.29 | 30 | |
| Lead | 76.5 | 1.5 | mg/Kg wet | 85.6 | | 89.4 | | 82.4-117.8 | 0.647 | 30 | |
| Nickel | 63.3 | 0.99 | mg/Kg wet | 61.3 | | 103 | | 82.2-117.8 | 5.15 | 30 | |
| Selenium | 73.8 | 9.9 | mg/Kg wet | 78.9 | | 93.6 | | 77.1-122.3 | 5.81 | 30 | |
| Silver | 56.3 | 0.99 | mg/Kg wet | 54.2 | | 104 | | 74.3-125.4 | 6.04 | 30 | |
| Thallium | 176 | 5.0 | mg/Kg wet | 178 | | 99.0 | | 78.2-121.6 | 7.19 | 30 | |
| Vanadium | 52.2 | 2.0 | mg/Kg wet | 56.3 | | 92.7 | | 64.8-135.2 | 4.97 | 30 | |
| Zinc | 206 | 2.0 | mg/Kg wet | 198 | | 104 | | 79.7-120.8 | 3.17 | 30 | B |
| **MRL Check (B183630-MRL1)** | | | | Prepared: 08/08/17 Analyzed: 08/09/17 | | | | | | | |
| **Lead** | 0.993 | 0.74 | mg/Kg wet | 0.735 | | **135** | * | 80-120 | | | L-10 |

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**FLAG/QUALIFIER SUMMARY**

| | |
|---|---|
| * | QC result is outside of established limits. |
| † | Wide recovery limits established for difficult compound. |
| ‡ | Wide RPD limits established for difficult compound. |
| # | Data exceeded client recommended or regulatory level |
| ND | Not Detected |
| RL | Reporting Limit |
| DL | Method Detection Limit |
| MCL | Maximum Contaminant Level |
| | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
| | No results have been blank subtracted unless specified in the case narrative section. |
| B | Analyte is found in the associated blank as well as in the sample. |
| B-07 | Data is not affected by elevated level in blank since sample result is >10x level found in the blank. |
| L-10 | The reporting limit verification for the AIHA lead program is outside of control limits for this element. Any reported result at or near the detection limit may be bias on the high side. |
| RL-12 | Elevated reporting limit due to matrix interference. |
| S-01 | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. |
| V-16 | Response factor is less than method specified minimum acceptable value. Reduced precision and accuracy may be associated with reported result. |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***CTDEP ETPH in Soil*** | |
| CT ETPH | CT |
| ***SW-846 6010C-D in Soil*** | |
| Antimony | CT,NH,NY,ME,VA,NC |
| Arsenic | CT,NH,NY,ME,VA,NC |
| Barium | CT,NH,NY,ME,VA,NC |
| Beryllium | CT,NH,NY,ME,VA,NC |
| Cadmium | CT,NH,NY,ME,VA,NC |
| Chromium | CT,NH,NY,ME,VA,NC |
| Copper | CT,NH,NY,ME,VA,NC |
| Lead | CT,NH,NY,AIHA,ME,VA,NC |
| Nickel | CT,NH,NY,ME,VA,NC |
| Selenium | CT,NH,NY,ME,VA,NC |
| Silver | CT,NH,NY,ME,VA,NC |
| Thallium | CT,NH,NY,ME,VA,NC |
| Vanadium | CT,NH,NY,ME,VA,NC |
| Zinc | CT,NH,NY,ME,VA,NC |
| ***SW-846 7471B in Soil*** | |
| Mercury | CT,NH,NY,NC,ME,VA |
| ***SW-846 8082A in Product/Solid*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| ***SW-846 8082A in Soil*** | |
| Aroclor-1016 | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 | CT,NH,NY,ME,NC,VA |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8082A in Soil*** | |
| Aroclor-1242 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C] | CT,NH,NY,ME,NC,VA |
| Aroclor-1262 | NY,NC,VA |
| Aroclor-1262 [2C] | NY,NC,VA |
| Aroclor-1268 | NY,NC,VA |
| Aroclor-1268 [2C] | NY,NC,VA |
| ***SW-846 8260C in Soil*** | |
| Acetone | CT,NH,NY,ME |
| Acrylonitrile | CT,NH,NY,ME |
| Benzene | CT,NH,NY,ME |
| Bromobenzene | NH,NY,ME |
| Bromodichloromethane | CT,NH,NY,ME |
| Bromoform | CT,NH,NY,ME |
| Bromomethane | CT,NH,NY,ME |
| 2-Butanone (MEK) | CT,NH,NY,ME |
| n-Butylbenzene | CT,NH,NY,ME |
| sec-Butylbenzene | CT,NH,NY,ME |
| tert-Butylbenzene | CT,NH,NY,ME |
| Carbon Disulfide | CT,NH,NY,ME |
| Carbon Tetrachloride | CT,NH,NY,ME |
| Chlorobenzene | CT,NH,NY,ME |
| Chlorodibromomethane | CT,NH,NY,ME |
| Chloroethane | CT,NH,NY,ME |
| Chloroform | CT,NH,NY,ME |
| Chloromethane | CT,NH,NY,ME |
| 2-Chlorotoluene | CT,NH,NY,ME |
| 4-Chlorotoluene | CT,NH,NY,ME |
| Dibromomethane | NH,NY,ME |
| 1,2-Dichlorobenzene | CT,NH,NY,ME |
| 1,3-Dichlorobenzene | CT,NH,NY,ME |
| 1,4-Dichlorobenzene | CT,NH,NY,ME |
| trans-1,4-Dichloro-2-butene | NY |
| Dichlorodifluoromethane (Freon 12) | NY,ME |
| 1,1-Dichloroethane | CT,NH,NY,ME |
| 1,2-Dichloroethane | CT,NH,NY,ME |
| 1,1-Dichloroethylene | CT,NH,NY,ME |
| cis-1,2-Dichloroethylene | CT,NH,NY,ME |
| trans-1,2-Dichloroethylene | CT,NH,NY,ME |
| 1,2-Dichloropropane | CT,NH,NY,ME |
| 1,3-Dichloropropane | NH,NY,ME |
| 2,2-Dichloropropane | NH,NY,ME |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8260C in Soil*** | |
| 1,1-Dichloropropene | NH,NY,ME |
| cis-1,3-Dichloropropene | CT,NH,NY,ME |
| trans-1,3-Dichloropropene | CT,NH,NY,ME |
| Ethylbenzene | CT,NH,NY,ME |
| Hexachlorobutadiene | NH,NY,ME |
| 2-Hexanone (MBK) | CT,NH,NY,ME |
| Isopropylbenzene (Cumene) | CT,NH,NY,ME |
| p-Isopropyltoluene (p-Cymene) | NH,NY |
| Methyl tert-Butyl Ether (MTBE) | NH,NY |
| Methylene Chloride | CT,NH,NY,ME |
| 4-Methyl-2-pentanone (MIBK) | CT,NH,NY |
| Naphthalene | NH,NY,ME |
| n-Propylbenzene | NH,NY |
| Styrene | CT,NH,NY,ME |
| 1,1,1,2-Tetrachloroethane | CT,NH,NY,ME |
| 1,1,2,2-Tetrachloroethane | CT,NH,NY,ME |
| Tetrachloroethylene | CT,NH,NY,ME |
| Toluene | CT,NH,NY,ME |
| 1,2,4-Trichlorobenzene | NH,NY,ME |
| 1,1,1-Trichloroethane | CT,NH,NY,ME |
| 1,1,2-Trichloroethane | CT,NH,NY,ME |
| Trichloroethylene | CT,NH,NY,ME |
| Trichlorofluoromethane (Freon 11) | CT,NH,NY,ME |
| 1,2,3-Trichloropropane | NH,NY,ME |
| 1,2,4-Trimethylbenzene | CT,NH,NY,ME |
| 1,3,5-Trimethylbenzene | CT,NH,NY,ME |
| Vinyl Chloride | CT,NH,NY,ME |
| m+p Xylene | CT,NH,NY,ME |
| o-Xylene | CT,NH,NY,ME |
| ***SW-846 8270D in Soil*** | |
| Acenaphthene | CT,NY,NH |
| Acenaphthene | CT,NY,NH,ME,NC,VA |
| Acenaphthylene | CT,NY,NH,ME,NC,VA |
| Acenaphthylene | CT,NY,NH |
| Aniline | NY,NH |
| Anthracene | CT,NY,NH |
| Anthracene | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene | CT,NY,NH |
| Benzo(a)anthracene | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene | CT,NY,NH |
| Benzo(a)pyrene | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene | CT,NY,NH |
| Benzo(b)fluoranthene | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene | CT,NY,NH |
| Benzo(g,h,i)perylene | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene | CT,NY,NH |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8270D in Soil*** | |
| Benzo(k)fluoranthene | CT,NY,NH,ME,NC,VA |
| Bis(2-chloroethoxy)methane | CT,NY,NH |
| Bis(2-chloroethyl)ether | CT,NY,NH |
| Bis(2-chloroisopropyl)ether | CT,NY,NH |
| Bis(2-Ethylhexyl)phthalate | CT,NY,NH |
| 4-Bromophenylphenylether | CT,NY,NH |
| Butylbenzylphthalate | CT,NY,NH |
| 4-Chloroaniline | CT,NY,NH |
| 4-Chloro-3-methylphenol | CT,NY,NH |
| 2-Chloronaphthalene | CT,NY,NH |
| 2-Chlorophenol | CT,NY,NH |
| 4-Chlorophenylphenylether | CT,NY,NH |
| Chrysene | CT,NY,NH |
| Chrysene | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene | CT,NY,NH |
| Dibenz(a,h)anthracene | CT,NY,NH,ME,NC,VA |
| Dibenzofuran | CT,NY,NH |
| Di-n-butylphthalate | CT,NY,NH |
| 1,2-Dichlorobenzene | NY,NH |
| 1,3-Dichlorobenzene | NY,NH |
| 1,4-Dichlorobenzene | NY,NH |
| 3,3-Dichlorobenzidine | CT,NY,NH |
| 2,4-Dichlorophenol | CT,NY,NH |
| Diethylphthalate | CT,NY,NH |
| 2,4-Dimethylphenol | CT,NY,NH |
| Dimethylphthalate | CT,NY,NH |
| 4,6-Dinitro-2-methylphenol | CT,NY,NH |
| 2,4-Dinitrophenol | CT,NY,NH |
| 2,4-Dinitrotoluene | CT,NY,NH |
| 2,6-Dinitrotoluene | CT,NY,NH |
| Di-n-octylphthalate | CT,NY,NH |
| Fluoranthene | CT,NY,NH |
| Fluoranthene | CT,NY,NH,ME,NC,VA |
| Fluorene | NY,NH |
| Fluorene | CT,NY,NH,ME,NC,VA |
| Hexachlorobenzene | CT,NY,NH |
| Hexachlorobutadiene | CT,NY,NH |
| Hexachlorocyclopentadiene | CT,NY,NH |
| Hexachloroethane | CT,NY,NH |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene | CT,NY,NH |
| Isophorone | CT,NY,NH |
| 2-Methylnaphthalene | CT,NY,NH |
| 2-Methylnaphthalene | CT,NY,NH,ME,NC,VA |
| 2-Methylphenol | CT,NY,NH |
| 3/4-Methylphenol | CT,NY,NH |
| Naphthalene | CT,NY,NH,ME,NC,VA |

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**CERTIFICATIONS**

**Certified Analyses included in this Report**

| Analyte | Certifications |
|---|---|
| ***SW-846 8270D in Soil*** | |
| Naphthalene | CT,NY,NH |
| 2-Nitroaniline | CT,NY,NH |
| 3-Nitroaniline | CT,NY,NH |
| 4-Nitroaniline | CT,NY,NH |
| Nitrobenzene | CT,NY,NH |
| 2-Nitrophenol | CT,NY,NH |
| 4-Nitrophenol | CT,NY,NH |
| N-Nitrosodiphenylamine | CT,NY,NH |
| N-Nitrosodi-n-propylamine | CT,NY,NH |
| Pentachloronitrobenzene | NY |
| Pentachlorophenol | CT,NY,NH |
| Phenanthrene | CT,NY,NH |
| Phenanthrene | CT,NY,NH,ME,NC,VA |
| Phenol | CT,NY,NH |
| Pyrene | CT,NY,NH |
| Pyrene | CT,NY,NH,ME,NC,VA |
| Pyridine | CT,NY,NH |
| 1,2,4,5-Tetrachlorobenzene | NY |
| 1,2,4-Trichlorobenzene | CT,NY,NH |
| 2,4,5-Trichlorophenol | CT,NY,NH |
| 2,4,6-Trichlorophenol | CT,NY,NH |

The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code | Description | Number | Expires |
|---|---|---|---|
| AIHA | AIHA-LAP, LLC - ISO17025:2005 | 100033 | 02/1/2018 |
| MA | Massachusetts DEP | M-MA100 | 06/30/2018 |
| CT | Connecticut Department of Publilc Health | PH-0567 | 09/30/2017 |
| NY | New York State Department of Health | 10899 NELAP | 04/1/2018 |
| NH-S | New Hampshire Environmental Lab | 2516 NELAP | 02/5/2018 |
| RI | Rhode Island Department of Health | LAO00112 | 12/30/2017 |
| NC | North Carolina Div. of Water Quality | 652 | 12/31/2017 |
| NJ | New Jersey DEP | MA007 NELAP | 06/30/2018 |
| FL | Florida Department of Health | E871027 NELAP | 06/30/2018 |
| VT | Vermont Department of Health Lead Laboratory | LL015036 | 07/30/2018 |
| ME | State of Maine | 2011028 | 06/9/2019 |
| VA | Commonwealth of Virginia | 460217 | 12/14/2017 |
| NH-P | New Hampshire Environmental Lab | 2557 NELAP | 09/6/2017 |
| VT-DW | Vermont Department of Health Drinking Water | VT-255716 | 06/12/2018 |
| NC-DW | North Carolina Department of Health | 25703 | 07/31/2018 |