

## Boring Log

Record: 820

|                    |                    |
|--------------------|--------------------|
| Boring Company     | Cummins envirotech |
| Foreman            | Timothy Schiavone  |
| W&S Representative | Will Sirotnak      |
| Start Date         | 2017-09-07         |
| Start Time         | 09:49:00           |
| End Date           | 2017-09-07         |
| End Time           | 10:03:00           |
| Project Name       | UI-English Station |
| Project Number     | 2170495            |
| AOC Number         | AOC-15             |
| Boring Number      | 16                 |
| Completion Depth   | 5                  |
| Boring Photo       |                    |



| Samples                                                     |                                                                                                                                                                                          |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                                                                                        |
| Penetration (inches)                                        | 60                                                                                                                                                                                       |
| Recovery (inches)                                           | 52                                                                                                                                                                                       |
| Depth (feet)                                                | 5                                                                                                                                                                                        |
| PID (ppmv)                                                  | 0                                                                                                                                                                                        |
| Sample Description & Classification (Modified<br>Burmister) | 0-0.5 asphalt; 0.5-2.0 fill consisting of medium, brown SAND and coarse gravel, with 10" concrete; 2.0-5 fill<br>consisting of medium, brown SAND little gravel, little ash, damp at 4-5 |
| Notes                                                       | Sample 0.5-1.5 pcbs etph; 1.5-2.5 pcbs; 4-5 pcbs plus dup 50                                                                                                                             |

## Boring Log

### Record: 934

|                               |                                                                                                          |
|-------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Boring Company</b>         | <i>Cummins EnviroTech</i>                                                                                |
| <b>Foreman</b>                | <i>Timothy Schiavone</i>                                                                                 |
| <b>W&amp;S Representative</b> | <i>Tim Schiavone</i>                                                                                     |
| <b>Start Date</b>             | <i>2017-09-07</i>                                                                                        |
| <b>Start Time</b>             | <i>10:28:00</i>                                                                                          |
| <b>End Date</b>               | <i>2017-09-07</i>                                                                                        |
| <b>End Time</b>               | <i>10:42:00</i>                                                                                          |
| <b>Project Name</b>           | <i>UI-English Station</i>                                                                                |
| <b>Project Number</b>         | <i>2170495</i>                                                                                           |
| <b>AOC Number</b>             | <i>AOC-15</i>                                                                                            |
| <b>Boring Number</b>          | <i>17</i>                                                                                                |
| <b>Completion Depth</b>       | <i>5</i>                                                                                                 |
| <b>Notes</b>                  | <i>Sample:</i><br><i>17-1: 1-1.5' ETPH, PCBs</i><br><i>17-2: 1.5-2.5' PCBs</i><br><i>17-3: 4-5' PCBs</i> |

### Samples

|                                                                         |                                                                                          |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------|
| <b>Depth</b>                                                            | <i>5</i>                                                                                 |
| <b>Penetration (inches)</b>                                             | <i>60</i>                                                                                |
| <b>Depth (feet)</b>                                                     | <i>5</i>                                                                                 |
| <b>PID (ppmv)</b>                                                       | <i>0</i>                                                                                 |
| <b>Sample Description &amp; Classification (Modified<br/>Burmister)</b> | <i>1" asphalt</i><br><i>10" concrete</i><br><i>Moist black fill with coarse sand and</i> |

## Boring Log

### Record: 937

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                                                    |
| Foreman            | Timothy Schiavone                                                                                     |
| W&S Representative | Tim Schiavone                                                                                         |
| Start Date         | 2017-09-07                                                                                            |
| Start Time         | 10:52:00                                                                                              |
| End Date           | 2017-09-07                                                                                            |
| End Time           | 11:00:00                                                                                              |
| Project Name       | UI-English Station                                                                                    |
| Project Number     | 2170495                                                                                               |
| AOC Number         | AOC-15                                                                                                |
| Boring Number      | 18                                                                                                    |
| Completion Depth   | 5                                                                                                     |
| Notes              | <p>Sample:</p> <p>18-1: 1-1.5' PCBs, ETPH</p> <p>18-2: 1.5-2.5' PCBs, PAHs</p> <p>18-3: 4-5' PCBs</p> |

### Samples

|                                                             |                                                                                                                                         |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                                       |
| Penetration (inches)                                        | 60                                                                                                                                      |
| Recovery (inches)                                           | 33                                                                                                                                      |
| Depth (feet)                                                | 5                                                                                                                                       |
| PID (ppmv)                                                  | 0                                                                                                                                       |
| Sample Description & Classification (Modified<br>Burmister) | <p>2" asphalt</p> <p>10" concrete</p> <p>Moist black fill with coarse sand and some gravel. Trace amount of silt. Coal ash present.</p> |



## Boring Log

### Record: 943

|                    |                                                                             |
|--------------------|-----------------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                          |
| Foreman            | Timothy Schiavone                                                           |
| W&S Representative | Tim Schiavone                                                               |
| Start Date         | 2017-09-07                                                                  |
| Start Time         | 11:30:00                                                                    |
| End Date           | 2017-09-07                                                                  |
| End Time           | 11:45:00                                                                    |
| Project Name       | UI-English Station                                                          |
| Project Number     | 2170495                                                                     |
| AOC Number         | AOC-15                                                                      |
| Boring Number      | 19                                                                          |
| Completion Depth   | 5                                                                           |
| Notes              | Sample:<br>19-1: 1-1.5' PCBs ETPH<br>19-2: 1.5-2.5' PCBs PAHs<br>19-3: 4-5' |

### Samples

|                                                             |                                                                                                                           |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                         |
| Penetration (inches)                                        | 60                                                                                                                        |
| Recovery (inches)                                           | 47                                                                                                                        |
| Depth (feet)                                                | 5                                                                                                                         |
| PID (ppmv)                                                  | 0                                                                                                                         |
| Sample Description & Classification (Modified<br>Burmister) | 1" asphalt<br>12" concrete<br>Moist black fill with coarse sand and some gravel. Trace amounts of silt. Coal ash present. |

## Boring Log

Record: 946

|                    |                    |
|--------------------|--------------------|
| Boring Company     | Cummins EnviroTech |
| Foreman            | Timothy Schiavone  |
| W&S Representative | Tim Schiavone      |
| Start Date         | 2017-09-07         |
| Start Time         | 11:50:00           |
| End Date           | 2017-09-07         |
| End Time           | 12:02:00           |
| Project Name       | UI-English Station |
| Project Number     | 2170495            |
| AOC Number         | AOC-15             |
| Boring Number      | 20                 |
| Completion Depth   | 5                  |
| Boring Photo       |                    |



|       |                                                                                         |
|-------|-----------------------------------------------------------------------------------------|
| Notes | <p>Sample:</p> <p>20-1: (1-1.5') ETPH, PCBs</p> <p>20-2: 1.5-2.5'</p> <p>20-3: 4-5'</p> |
|-------|-----------------------------------------------------------------------------------------|

| Samples                                                     |                                                                                                                              |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                            |
| Penetration (inches)                                        | 60                                                                                                                           |
| Recovery (inches)                                           | 43                                                                                                                           |
| Depth (feet)                                                | 5                                                                                                                            |
| PID (ppmv)                                                  | 0                                                                                                                            |
| Sample Description & Classification (Modified<br>Burmister) | 2" asphalt<br>8" concrete<br>Black moist fill with coarse sand and gravel. Trace amount of silt and cobble. Coal ash present |

## Boring Log

### Record: 961

|                    |                                                                  |
|--------------------|------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                               |
| Foreman            | Timothy Schiavone                                                |
| W&S Representative | Tim Schiavone                                                    |
| Start Date         | 2017-09-07                                                       |
| Start Time         | 12:18:00                                                         |
| End Date           | 2017-09-07                                                       |
| End Time           | 12:29:00                                                         |
| Project Name       | UI-English Station                                               |
| Project Number     | 2170495                                                          |
| AOC Number         | AOC-15                                                           |
| Boring Number      | 21                                                               |
| Completion Depth   | 5                                                                |
| Notes              | Sample:<br>21-1: 1-1.5' ETPH, PCBs<br>21-2: 1.5-2'<br>21-3: 4-5' |

### Samples

|                                                             |                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                    |
| Penetration (inches)                                        | 60                                                                                                                   |
| Recovery (inches)                                           | 31                                                                                                                   |
| Depth (feet)                                                | 5                                                                                                                    |
| PID (ppmv)                                                  | 0                                                                                                                    |
| Sample Description & Classification (Modified<br>Burmister) | 2" asphalt<br>12" concrete<br>Moist black fill with coarse sand and gravel, trace silt and cobble. Coal ash present. |

## Boring Log

### Record: 931

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                                 |
| Foreman            | Timothy Schiavone                                                                  |
| W&S Representative | Tim Schiavone                                                                      |
| Start Date         | 2017-09-07                                                                         |
| Start Time         | 09:53:00                                                                           |
| End Date           | 2017-09-07                                                                         |
| End Time           | 10:05:00                                                                           |
| Project Name       | UI-English Station                                                                 |
| Project Number     | 2170495                                                                            |
| AOC Number         | AOC-15                                                                             |
| Boring Number      | 22                                                                                 |
| Notes              | Sample:<br>22-1: 1-1.5' PCBs, ETPH<br>22-2: 1.5-2.5' PCBs, PAHs<br>22-3: 4-5' PCBs |

### Samples

|                                                             |                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                      |
| Penetration (inches)                                        | 60                                                                                                                     |
| Recovery (inches)                                           | 40                                                                                                                     |
| Depth (feet)                                                | 5                                                                                                                      |
| PID (ppmv)                                                  | 0                                                                                                                      |
| Sample Description & Classification (Modified<br>Burmister) | 1" asphalt<br>12" concrete<br>Moist black fill with coarse to fine sand and some gravel, trace silt. Coal ash present. |

## Boring Log

### Record: 952

|                    |                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                                                    |
| Foreman            | Timothy Schiavone                                                                                     |
| W&S Representative | Tim Schiavone                                                                                         |
| Start Date         | 2017-09-07                                                                                            |
| Start Time         | 10:23:00                                                                                              |
| End Date           | 2017-09-07                                                                                            |
| End Time           | 10:30:00                                                                                              |
| Project Name       | UI-English Station                                                                                    |
| Project Number     | 2170495                                                                                               |
| AOC Number         | AOC-15                                                                                                |
| Boring Number      | 23                                                                                                    |
| Completion Depth   | 5                                                                                                     |
| Notes              | <p>Sample:</p> <p>23-1: 1-1.5' PCBs, ETPH</p> <p>23-2: 1.5-2.5' PCBs, PAHs</p> <p>23-3: 4-5' PCBs</p> |

### Samples

|                                                             |                                                                                                                                       |
|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                                     |
| Penetration (inches)                                        | 60                                                                                                                                    |
| Recovery (inches)                                           | 47                                                                                                                                    |
| Depth (feet)                                                | 5                                                                                                                                     |
| PID (ppmv)                                                  | 0                                                                                                                                     |
| Sample Description & Classification (Modified<br>Burmister) | <p>1" asphalt</p> <p>12" concrete</p> <p>Moist black fill with coarse to fine sand and some gravel, trace silt. Coal ash present.</p> |

## Boring Log

### Record: 955

|                    |                                                         |
|--------------------|---------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                      |
| Foreman            | Timothy Schiavone                                       |
| W&S Representative | Tim Schiavone                                           |
| Start Date         | 2017-09-07                                              |
| Start Time         | 12:07:00                                                |
| End Date           | 2017-09-07                                              |
| End Time           | 12:22:00                                                |
| Project Name       | UI-English Station                                      |
| Project Number     | 2170495                                                 |
| AOC Number         | AOC-15                                                  |
| Boring Number      | 24                                                      |
| Completion Depth   | 5                                                       |
| Notes              | Sample:<br>24-1: 1-1.5'<br>24-2: 1.5-2.5'<br>24-3: 4-5' |

### Samples

|                                                             |                                                                                                                      |
|-------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                    |
| Penetration (inches)                                        | 60                                                                                                                   |
| Recovery (inches)                                           | 29                                                                                                                   |
| Depth (feet)                                                | 5                                                                                                                    |
| PID (ppmv)                                                  | 0                                                                                                                    |
| Sample Description & Classification (Modified<br>Burmister) | 1" asphalt<br>10" concrete<br>Moist black fill with coarse sand and gravel. Trace silt and cobble. Coal ash present. |

## Boring Log

Record: 958

|                    |                    |
|--------------------|--------------------|
| Boring Company     | Cummins EnviroTech |
| Foreman            | Timothy Schiavone  |
| W&S Representative | Tim Schiavone      |
| Start Date         | 2017-09-07         |
| Start Time         | 12:15:00           |
| End Date           | 2017-09-07         |
| End Time           | 12:26:00           |
| Project Name       | UI-English Station |
| Project Number     | 2170495            |
| AOC Number         | AOC-15             |
| Boring Number      | 25                 |
| Completion Depth   | 5                  |
| Boring Photo       |                    |



### Notes

Sample:  
 25-1: 1-1.5' PCBs ETPH  
 25-2: 1.5-2.5'  
 25-3: 4-5'



| Samples                                                     |                                                                                                           |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                         |
| Penetration (inches)                                        | 60                                                                                                        |
| Recovery (inches)                                           | 46                                                                                                        |
| Depth (feet)                                                | 5                                                                                                         |
| PID (ppmv)                                                  | 0                                                                                                         |
| Sample Description & Classification (Modified<br>Burmister) | 1" asphalt<br>10" concrete<br>Moist black fill with coarse sand and gravel. Trace silt. Coal ash present. |

## Boring Log

Record: 967

|                    |                                                                    |
|--------------------|--------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                 |
| Foreman            | Timothy Schiavone                                                  |
| W&S Representative | Tim Schiavone                                                      |
| Start Date         | 2017-09-07                                                         |
| Start Time         | 13:50:00                                                           |
| End Date           | 2017-09-07                                                         |
| End Time           | 14:00:00                                                           |
| Project Name       | UI-English Station                                                 |
| Project Number     | 2170495                                                            |
| AOC Number         | AOC-15                                                             |
| Boring Number      | 26                                                                 |
| Completion Depth   | 5                                                                  |
| Notes              | Sample:<br>26-1: 1-1.5' ETPH, PCBs<br>26-2: 1.5-2.5'<br>27-3: 4-5' |

### Samples

|                                                             |                                                                                                                             |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                           |
| Penetration (inches)                                        | 60                                                                                                                          |
| Recovery (inches)                                           | 20                                                                                                                          |
| Depth (feet)                                                | 5                                                                                                                           |
| PID (ppmv)                                                  | 0                                                                                                                           |
| Sample Description & Classification (Modified<br>Burmister) | 2" asphalt<br>8" concrete<br>Moist black fill with coarse to fine sand and gravel. Trace cobble and silt. Coal ash present. |

## Boring Log

### Record: 1183

|                    |                                   |
|--------------------|-----------------------------------|
| Boring Company     | Technical Drilling Services, Inc. |
| Foreman            | Timothy Schiavone                 |
| W&S Representative | Tim Schiavone                     |
| Start Date         | 2017-09-11                        |
| Start Time         | 10:10:00                          |
| End Date           | 2017-09-11                        |
| Project Name       | UI-English Station                |
| Project Number     | 2170495                           |
| AOC Number         | AOC-15                            |
| Boring Number      | 27                                |
| Completion Depth   | 5                                 |

### Samples

|                                                             |                                                                                     |
|-------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                   |
| Penetration (inches)                                        | 60                                                                                  |
| Recovery (inches)                                           | 36                                                                                  |
| Depth (feet)                                                | 5                                                                                   |
| PID (ppmv)                                                  | 0                                                                                   |
| Sample Description & Classification (Modified<br>Burmister) | Moist black fill with coarse sand and some gravel. Trace evidence of fill materials |

## Boring Log

Record: 964

|                    |                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Boring Company     | Cummins EnviroTech                                                                                                                                               |
| Foreman            | Timothy Schiavone                                                                                                                                                |
| W&S Representative | Tim Schiavone                                                                                                                                                    |
| Start Date         | 2017-09-07                                                                                                                                                       |
| Start Time         | 13:36:00                                                                                                                                                         |
| End Date           | 2017-09-07                                                                                                                                                       |
| End Time           | 13:45:00                                                                                                                                                         |
| Project Name       | UI-English Station                                                                                                                                               |
| Project Number     | 2170495                                                                                                                                                          |
| AOC Number         | AOC-15                                                                                                                                                           |
| Boring Number      | 28                                                                                                                                                               |
| Completion Depth   | 5                                                                                                                                                                |
| Notes              | <p>Sample:</p> <p>28-1: 0.5-1.5' PCBs, ETPH</p> <p>28-2: 1.5-2.5'</p> <p>28-3: 4-5'</p> <p>28-1 is also MS/MSD for PCBs. 2 borings were conducted for volume</p> |

### Samples

|                                                             |                                                                                                                        |
|-------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| Depth                                                       | 5                                                                                                                      |
| Penetration (inches)                                        | 60                                                                                                                     |
| Recovery (inches)                                           | 52                                                                                                                     |
| Depth (feet)                                                | 5                                                                                                                      |
| PID (ppmv)                                                  | 0                                                                                                                      |
| Sample Description & Classification (Modified<br>Burmister) | <p>1" asphalt</p> <p>6" concrete</p> <p>Black moist fill with coarse sand and gravel. Trace silt. Coal ash present</p> |

## APPENDIX C

Analytical Data Reports (electronic)

September 6, 2017

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

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 2170495  
Laboratory Work Order Number: 17G0867

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

Sincerely,

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

James M. Georgantas  
Project Manager

October 19, 2017

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

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 2170495  
Laboratory Work Order Number: 17I0378

Enclosed are results of analyses for samples received by the laboratory on September 11, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas  
Project Manager

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

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

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 1710378

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

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

| FIELD SAMPLE #      | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                       | SUB LAB |
|---------------------|------------|--------|--------------------|--------------------------------------------|---------|
| WS-AOC15-SO-27-1    | 1710378-01 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 8082A     |         |
| WS-AOC15-SO-27-2    | 1710378-02 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC15-SO-27-3    | 1710378-03 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-9-SO-29-1    | 1710378-04 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-9-SO-29-2    | 1710378-05 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-9-SO-29-3    | 1710378-06 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-9-SO-29-4    | 1710378-07 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-112-1 | 1710378-08 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-112-2 | 1710378-09 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-112-3 | 1710378-10 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-111-1 | 1710378-11 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-111-2 | 1710378-12 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 8082A     |         |
| WS-AOC-12W-SO-111-3 | 1710378-13 | Soil   |                    | SM 2540G<br>SW-846 6010C-D<br>SW-846 8082A |         |
| WS-AOC-12W-SO-105-1 | 1710378-14 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 8082A     |         |
| WS-AOC-12W-SO-105-2 | 1710378-15 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-105-3 | 1710378-16 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-110-1 | 1710378-17 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |
| WS-AOC-12W-SO-110-2 | 1710378-18 | Soil   |                    | SM 2540G<br>SW-846 8082A                   |         |

---

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067  
ATTN: Malcolm Beeler

REPORT DATE: 10/19/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 1710378

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

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

| FIELD SAMPLE #      | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                   | SUB LAB |
|---------------------|------------|--------|--------------------|----------------------------------------|---------|
| WS-AOC-12W-SO-110-3 | 1710378-19 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 8082A |         |
| WS-AOC-12W-SO-103-1 | 1710378-20 | Soil   |                    | CTDEP ETPH<br>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.

REVISED REPORT - 10/19/2017 - 17I0378-01 through -03 IDs revised.

For method 6010, only As was requested and reported.

### CTDEP ETPH

#### Qualifications:

##### MS-09

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

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

##### CT ETPH

17I0378-12[WS-AOC-12W-SO-111-2], B186472-MS1, B186472-MSD1

##### S-01

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

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

##### o-Terphenyl

17I0378-01[WS-AOC15-SO-27-1]

### SW-846 8082A

#### Qualifications:

##### S-01

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

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

##### Decachlorobiphenyl

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

##### Decachlorobiphenyl [2C]

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

##### Tetrachloro-m-xylene

17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

##### Tetrachloro-m-xylene [2C]

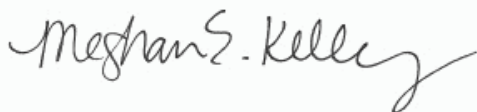
17I0378-04[WS-AOC-9-SO-29-1], 17I0378-05[WS-AOC-9-SO-29-2]

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Meghan E. Kelley  
Project Manager

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.090           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 17:45      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 84.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 86.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 85.6       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL  | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|-----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 2200       | 570 | mg/Kg dry       | 50       |           | CTDEP ETPH | 9/18/17       | 9/20/17 19:48      | SCS     |
| Surrogates  | % Recovery |     | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |     | 50-150          |          | S-01      |            |               | 9/20/17 19:48      |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-1

Sampled: 9/11/2017 11:29

Sample ID: 1710378-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 87.7    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.096           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:02      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 81.2       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 98.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 87.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 88.7       | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-2

Sampled: 9/11/2017 11:30

Sample ID: 1710378-02

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.6    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 18:20      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 70.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 90.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 82.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 79.8       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC15-SO-27-3

Sampled: 9/11/2017 11:31

Sample ID: 1710378-03

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 72.1    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1221 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1232 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1242 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1248 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1254 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1260 [2]         | 78         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1262 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Aroclor-1268 [1]         | ND         | 9.1             | mg/Kg dry | 400      |           | SW-846 8082A | 9/18/17       | 9/22/17 7:56       | KAL     |
| Surrogates               | % Recovery | Recovery Limits |           |          | Flag/Qual |              |               |                    |         |
| Decachlorobiphenyl [1]   | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 7:56       |         |
| Decachlorobiphenyl [2]   | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 7:56       |         |
| Tetrachloro-m-xylene [1] | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 7:56       |         |
| Tetrachloro-m-xylene [2] | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 7:56       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-1

Sampled: 9/11/2017 11:46

Sample ID: 1710378-04

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 88.1    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1221 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1232 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1242 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1248 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1254 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1260 [2]         | 5.9        | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1262 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Aroclor-1268 [1]         | ND         | 0.89            | mg/Kg dry | 40       |           | SW-846 8082A | 9/18/17       | 9/22/17 8:08       | KAL     |
| Surrogates               | % Recovery | Recovery Limits |           |          | Flag/Qual |              |               |                    |         |
| Decachlorobiphenyl [1]   | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 8:08       |         |
| Decachlorobiphenyl [2]   | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 8:08       |         |
| Tetrachloro-m-xylene [1] | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 8:08       |         |
| Tetrachloro-m-xylene [2] | *          | 30-150          |           |          | S-01      |              |               | 9/22/17 8:08       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-2

Sampled: 9/11/2017 11:47

Sample ID: 1710378-05

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.3    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1260 [2]         | 0.11       | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:12      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 86.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 101        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 91.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 91.0       | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-3

Sampled: 9/11/2017 11:48

Sample ID: 1710378-06

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 70.4    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:30      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 87.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 107        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 91.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 91.3       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-9-SO-29-4

Sampled: 9/11/2017 11:49

Sample ID: 1710378-07

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 68.2    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 19:47      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 82.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 92.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 91.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.9       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-1

Sampled: 9/11/2017 12:15

Sample ID: 1710378-08

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.0    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1260 [1]         | 0.12       | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:05      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 63.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 80.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 72.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 72.9       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-2

Sampled: 9/11/2017 12:16

Sample ID: 1710378-09

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 93.3    |    | % Wt  | 1        |           | SM 2540G | 9/18/17       | 9/19/17 8:23       | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1260 [2]         | 0.16       | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:22      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 71.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 81.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 77.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.2       | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-112-3

Sampled: 9/11/2017 12:17

Sample ID: 1710378-10

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 87.2    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:39      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 77.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 84.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 87.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.0       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-1

Sampled: 9/11/2017 09:35

Sample ID: 1710378-11

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.2    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.083           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 20:57      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 79.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 86.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 90.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 97.9       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 91         | 52 | mg/Kg dry       | 5        | MS-09     | CTDEP ETPH | 9/18/17       | 9/20/17 1:43       | SCS     |
| Surrogates  | % Recovery |    | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 83.2       |    | 50-150          |          |           |            | 9/20/17 1:43  |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-2

Sampled: 9/11/2017 09:36

Sample ID: 1710378-12

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 96.6    |    | % Wt  | 1        |           | SM 2540G | 9/18/17       | 9/19/17 8:23       | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.082           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:04      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 88.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 97.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 93.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 96.5       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

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**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | ND      | 2.4 | mg/Kg dry | 1        |           | SW-846 6010C-D | 9/18/17          | 9/19/17 13:58         | 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: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-111-3

Sampled: 9/11/2017 09:37

Sample ID: 1710378-13

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 96.2    |    | % Wt  | 1        |           | SM 2540G | 9/18/17       | 9/19/17 8:23       | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.091           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:21      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 83.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 94.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 90.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 89.7       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL  | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|-----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 250        | 110 | mg/Kg dry       | 10       |           | CTDEP ETPH | 9/18/17       | 9/20/17 2:01       | SCS     |
| Surrogates  | % Recovery |     | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 64.0       |     | 50-150          |          |           |            |               | 9/20/17 2:01       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-1

Sampled: 9/11/2017 09:38

Sample ID: 1710378-14

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 87.1    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.086           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:38      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 76.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 83.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 84.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 90.9       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-2

Sampled: 9/11/2017 09:39

Sample ID: 1710378-15

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.5    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.088           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/21/17 23:56      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 41.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 50.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 45.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 44.6       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-105-3

Sampled: 9/11/2017 09:40

Sample ID: 1710378-16

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 90.9    |    | % Wt  | 1        |           | SM 2540G | 9/18/17       | 9/19/17 8:23       | MRL     |



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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1221 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1232 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1242 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1248 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1254 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1260 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1262 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Aroclor-1268 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:13       | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.7       | 30-150          |           |          |           |              |               | 9/22/17 0:13       |         |
| Decachlorobiphenyl [2]   | 78.4       | 30-150          |           |          |           |              |               | 9/22/17 0:13       |         |
| Tetrachloro-m-xylene [1] | 80.6       | 30-150          |           |          |           |              |               | 9/22/17 0:13       |         |
| Tetrachloro-m-xylene [2] | 85.8       | 30-150          |           |          |           |              |               | 9/22/17 0:13       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-1

Sampled: 9/11/2017 09:46

Sample ID: 1710378-17

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.4    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1221 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1232 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1242 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1248 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1254 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1260 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1262 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Aroclor-1268 [1]         | ND         | 0.081           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:31       | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 78.1       | 30-150          |           |          |           |              |               | 9/22/17 0:31       |         |
| Decachlorobiphenyl [2]   | 85.5       | 30-150          |           |          |           |              |               | 9/22/17 0:31       |         |
| Tetrachloro-m-xylene [1] | 82.3       | 30-150          |           |          |           |              |               | 9/22/17 0:31       |         |
| Tetrachloro-m-xylene [2] | 88.2       | 30-150          |           |          |           |              |               | 9/22/17 0:31       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-2

Sampled: 9/11/2017 09:47

Sample ID: 1710378-18

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 96.3    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1221 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1232 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1242 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1248 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1254 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1260 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1262 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Aroclor-1268 [1]         | ND         | 0.084           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 0:48       | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 80.8       | 30-150          |           |          |           |              |               | 9/22/17 0:48       |         |
| Decachlorobiphenyl [2]   | 89.4       | 30-150          |           |          |           |              |               | 9/22/17 0:48       |         |
| Tetrachloro-m-xylene [1] | 88.2       | 30-150          |           |          |           |              |               | 9/22/17 0:48       |         |
| Tetrachloro-m-xylene [2] | 92.8       | 30-150          |           |          |           |              |               | 9/22/17 0:48       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 66         | 53 | mg/Kg dry       | 5        |           | CTDEP ETPH | 9/18/17       | 9/20/17 19:13      | SCS     |
| Surrogates  | % Recovery |    | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 74.8       |    | 50-150          |          |           |            |               | 9/20/17 19:13      |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-110-3

Sampled: 9/11/2017 09:48

Sample ID: 1710378-19

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.3    |    | % Wt  | 1        |           | SM 2540G | 9/18/17          | 9/19/17 8:23          | MRL     |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1221 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1232 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1242 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1248 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1254 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1260 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1262 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Aroclor-1268 [1]         | ND         | 0.085           | mg/Kg dry | 4        |           | SW-846 8082A | 9/18/17       | 9/22/17 1:06       | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 79.8       | 30-150          |           |          |           |              |               | 9/22/17 1:06       |         |
| Decachlorobiphenyl [2]   | 87.4       | 30-150          |           |          |           |              |               | 9/22/17 1:06       |         |
| Tetrachloro-m-xylene [1] | 86.3       | 30-150          |           |          |           |              |               | 9/22/17 1:06       |         |
| Tetrachloro-m-xylene [2] | 91.6       | 30-150          |           |          |           |              |               | 9/22/17 1:06       |         |



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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

### Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 23         | 11 | mg/Kg dry       | 1        |           | CTDEP ETPH | 9/18/17       | 9/20/17 7:54       | SCS     |
| Surrogates  | % Recovery |    | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 79.8       |    | 50-150          |          |           |            |               | 9/20/17 7:54       |         |

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

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

Sample Description:

Work Order: 1710378

Date Received: 9/11/2017

Field Sample #: WS-AOC-12W-SO-103-1

Sampled: 9/11/2017 09:54

Sample ID: 1710378-20

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 93.7    |    | % Wt  | 1        |           | SM 2540G | 9/18/17       | 9/19/17 8:23       | MRL     |

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

### Sample Extraction Data

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

| Lab Number [Field ID]            | Batch   | Initial [g] | Final [mL] | Date     |
|----------------------------------|---------|-------------|------------|----------|
| 17I0378-01 [WS-AOC15-SO-27-1]    | B186472 | 30.2        | 1.00       | 09/18/17 |
| 17I0378-12 [WS-AOC-12W-SO-111-2] | B186472 | 30.0        | 1.00       | 09/18/17 |
| 17I0378-14 [WS-AOC-12W-SO-105-1] | B186472 | 30.0        | 1.00       | 09/18/17 |
| 17I0378-19 [WS-AOC-12W-SO-110-3] | B186472 | 30.1        | 1.00       | 09/18/17 |
| 17I0378-20 [WS-AOC-12W-SO-103-1] | B186472 | 30.1        | 1.00       | 09/18/17 |

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

| Lab Number [Field ID]            | Batch   | Date     |
|----------------------------------|---------|----------|
| 17I0378-01 [WS-AOC15-SO-27-1]    | B186437 | 09/18/17 |
| 17I0378-02 [WS-AOC15-SO-27-2]    | B186437 | 09/18/17 |
| 17I0378-03 [WS-AOC15-SO-27-3]    | B186437 | 09/18/17 |
| 17I0378-04 [WS-AOC-9-SO-29-1]    | B186437 | 09/18/17 |
| 17I0378-05 [WS-AOC-9-SO-29-2]    | B186437 | 09/18/17 |
| 17I0378-06 [WS-AOC-9-SO-29-3]    | B186437 | 09/18/17 |
| 17I0378-07 [WS-AOC-9-SO-29-4]    | B186437 | 09/18/17 |
| 17I0378-08 [WS-AOC-12W-SO-112-1] | B186437 | 09/18/17 |
| 17I0378-09 [WS-AOC-12W-SO-112-2] | B186437 | 09/18/17 |
| 17I0378-10 [WS-AOC-12W-SO-112-3] | B186437 | 09/18/17 |
| 17I0378-11 [WS-AOC-12W-SO-111-1] | B186437 | 09/18/17 |
| 17I0378-12 [WS-AOC-12W-SO-111-2] | B186437 | 09/18/17 |
| 17I0378-13 [WS-AOC-12W-SO-111-3] | B186437 | 09/18/17 |
| 17I0378-14 [WS-AOC-12W-SO-105-1] | B186437 | 09/18/17 |
| 17I0378-15 [WS-AOC-12W-SO-105-2] | B186437 | 09/18/17 |
| 17I0378-16 [WS-AOC-12W-SO-105-3] | B186437 | 09/18/17 |
| 17I0378-17 [WS-AOC-12W-SO-110-1] | B186437 | 09/18/17 |
| 17I0378-18 [WS-AOC-12W-SO-110-2] | B186437 | 09/18/17 |
| 17I0378-19 [WS-AOC-12W-SO-110-3] | B186437 | 09/18/17 |
| 17I0378-20 [WS-AOC-12W-SO-103-1] | B186437 | 09/18/17 |

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

| Lab Number [Field ID]            | Batch   | Initial [g] | Final [mL] | Date     |
|----------------------------------|---------|-------------|------------|----------|
| 17I0378-13 [WS-AOC-12W-SO-111-3] | B186450 | 1.08        | 50.0       | 09/18/17 |

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

| Lab Number [Field ID]            | Batch   | Initial [g] | Final [mL] | Date     |
|----------------------------------|---------|-------------|------------|----------|
| 17I0378-01 [WS-AOC15-SO-27-1]    | B186484 | 10.1        | 10.0       | 09/18/17 |
| 17I0378-02 [WS-AOC15-SO-27-2]    | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-03 [WS-AOC15-SO-27-3]    | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-04 [WS-AOC-9-SO-29-1]    | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-05 [WS-AOC-9-SO-29-2]    | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-06 [WS-AOC-9-SO-29-3]    | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-07 [WS-AOC-9-SO-29-4]    | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-08 [WS-AOC-12W-SO-112-1] | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-09 [WS-AOC-12W-SO-112-2] | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-10 [WS-AOC-12W-SO-112-3] | B186484 | 10.1        | 10.0       | 09/18/17 |
| 17I0378-11 [WS-AOC-12W-SO-111-1] | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-12 [WS-AOC-12W-SO-111-2] | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-13 [WS-AOC-12W-SO-111-3] | B186484 | 10.2        | 10.0       | 09/18/17 |

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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     |
|----------------------------------|---------|-------------|------------|----------|
| 17I0378-14 [WS-AOC-12W-SO-105-1] | B186484 | 10.1        | 10.0       | 09/18/17 |
| 17I0378-15 [WS-AOC-12W-SO-105-2] | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-16 [WS-AOC-12W-SO-105-3] | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-17 [WS-AOC-12W-SO-110-1] | B186484 | 10.0        | 10.0       | 09/18/17 |
| 17I0378-18 [WS-AOC-12W-SO-110-2] | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-19 [WS-AOC-12W-SO-110-3] | B186484 | 10.2        | 10.0       | 09/18/17 |
| 17I0378-20 [WS-AOC-12W-SO-103-1] | B186484 | 10.0        | 10.0       | 09/18/17 |

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 |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-------|-----------|-------|
| <b>Batch B186484 - SW-846 3540C</b>   |        |                 |           |             |               |      |             |       |           |       |
| <b>Blank (B186484-BLK1)</b>           |        |                 |           |             |               |      |             |       |           |       |
| Prepared: 09/18/17 Analyzed: 09/21/17 |        |                 |           |             |               |      |             |       |           |       |
| Aroclor-1016                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1016 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1221                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1221 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1232                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1232 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1242                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1242 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1248                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1248 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1254                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1254 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1260                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1260 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1262                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1262 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1268                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Aroclor-1268 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |       |           |       |
| Surrogate: Decachlorobiphenyl         | 0.208  |                 | mg/Kg wet | 0.200       |               | 104  | 30-150      |       |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.179  |                 | mg/Kg wet | 0.200       |               | 89.6 | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.194  |                 | mg/Kg wet | 0.200       |               | 97.0 | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.141  |                 | mg/Kg wet | 0.200       |               | 70.5 | 30-150      |       |           |       |
| <b>LCS (B186484-BS1)</b>              |        |                 |           |             |               |      |             |       |           |       |
| Prepared: 09/18/17 Analyzed: 09/21/17 |        |                 |           |             |               |      |             |       |           |       |
| Aroclor-1016                          | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 84.1 | 40-140      |       |           |       |
| Aroclor-1016 [2C]                     | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 83.3 | 40-140      |       |           |       |
| Aroclor-1260                          | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 78.5 | 40-140      |       |           |       |
| Aroclor-1260 [2C]                     | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 80.1 | 40-140      |       |           |       |
| Surrogate: Decachlorobiphenyl         | 0.205  |                 | mg/Kg wet | 0.200       |               | 103  | 30-150      |       |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.176  |                 | mg/Kg wet | 0.200       |               | 88.1 | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.195  |                 | mg/Kg wet | 0.200       |               | 97.4 | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.144  |                 | mg/Kg wet | 0.200       |               | 71.8 | 30-150      |       |           |       |
| <b>LCS Dup (B186484-BSD1)</b>         |        |                 |           |             |               |      |             |       |           |       |
| Prepared: 09/18/17 Analyzed: 09/21/17 |        |                 |           |             |               |      |             |       |           |       |
| Aroclor-1016                          | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 85.6 | 40-140      | 1.78  | 30        |       |
| Aroclor-1016 [2C]                     | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 84.0 | 40-140      | 0.774 | 30        |       |
| Aroclor-1260                          | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 79.1 | 40-140      | 0.742 | 30        |       |
| Aroclor-1260 [2C]                     | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 80.9 | 40-140      | 1.03  | 30        |       |
| Surrogate: Decachlorobiphenyl         | 0.199  |                 | mg/Kg wet | 0.200       |               | 99.7 | 30-150      |       |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.175  |                 | mg/Kg wet | 0.200       |               | 87.4 | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.203  |                 | mg/Kg wet | 0.200       |               | 101  | 30-150      |       |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.150  |                 | mg/Kg wet | 0.200       |               | 74.9 | 30-150      |       |           |       |

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 |
|----------------------------------------|---------------------------|-----------------|-----------|---------------------------------------|---------------|------|-------------|------|-----------|-------|
| <b>Batch B186484 - SW-846 3540C</b>    |                           |                 |           |                                       |               |      |             |      |           |       |
| <b>Matrix Spike (B186484-MS1)</b>      | <b>Source: 1710378-09</b> |                 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |               |      |             |      |           |       |
| Aroclor-1016                           | 0.17                      | 0.086           | mg/Kg dry | 0.214                                 | ND            | 80.3 | 40-140      |      |           |       |
| Aroclor-1016 [2C]                      | 0.16                      | 0.086           | mg/Kg dry | 0.214                                 | ND            | 73.9 | 40-140      |      |           |       |
| Aroclor-1260                           | 0.23                      | 0.086           | mg/Kg dry | 0.214                                 | 0.12          | 52.2 | 40-140      |      |           |       |
| Aroclor-1260 [2C]                      | 0.24                      | 0.086           | mg/Kg dry | 0.214                                 | 0.11          | 62.4 | 40-140      |      |           |       |
| Surrogate: Decachlorobiphenyl          | 0.167                     |                 | mg/Kg dry | 0.214                                 |               | 77.7 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]     | 0.195                     |                 | mg/Kg dry | 0.214                                 |               | 91.2 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene        | 0.186                     |                 | mg/Kg dry | 0.214                                 |               | 86.9 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]   | 0.186                     |                 | mg/Kg dry | 0.214                                 |               | 86.8 | 30-150      |      |           |       |
| <b>Matrix Spike (B186484-MS2)</b>      | <b>Source: 1710378-12</b> |                 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |               |      |             |      |           |       |
| Aroclor-1016                           | 0.17                      | 0.081           | mg/Kg dry | 0.203                                 | ND            | 85.4 | 40-140      |      |           |       |
| Aroclor-1016 [2C]                      | 0.17                      | 0.081           | mg/Kg dry | 0.203                                 | ND            | 85.8 | 40-140      |      |           |       |
| Aroclor-1260                           | 0.15                      | 0.081           | mg/Kg dry | 0.203                                 | ND            | 72.2 | 40-140      |      |           |       |
| Aroclor-1260 [2C]                      | 0.15                      | 0.081           | mg/Kg dry | 0.203                                 | ND            | 73.8 | 40-140      |      |           |       |
| Surrogate: Decachlorobiphenyl          | 0.155                     |                 | mg/Kg dry | 0.203                                 |               | 76.5 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]     | 0.168                     |                 | mg/Kg dry | 0.203                                 |               | 82.8 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene        | 0.178                     |                 | mg/Kg dry | 0.203                                 |               | 87.9 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]   | 0.188                     |                 | mg/Kg dry | 0.203                                 |               | 92.8 | 30-150      |      |           |       |
| <b>Matrix Spike (B186484-MS3)</b>      | <b>Source: 1710378-15</b> |                 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |               |      |             |      |           |       |
| Aroclor-1016                           | 0.20                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 92.3 | 40-140      |      |           |       |
| Aroclor-1016 [2C]                      | 0.19                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 88.7 | 40-140      |      |           |       |
| Aroclor-1260                           | 0.17                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 81.2 | 40-140      |      |           |       |
| Aroclor-1260 [2C]                      | 0.18                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 84.9 | 40-140      |      |           |       |
| Surrogate: Decachlorobiphenyl          | 0.178                     |                 | mg/Kg dry | 0.212                                 |               | 83.9 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]     | 0.196                     |                 | mg/Kg dry | 0.212                                 |               | 92.5 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene        | 0.203                     |                 | mg/Kg dry | 0.212                                 |               | 96.0 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]   | 0.209                     |                 | mg/Kg dry | 0.212                                 |               | 98.8 | 30-150      |      |           |       |
| <b>Matrix Spike (B186484-MS4)</b>      | <b>Source: 1710378-18</b> |                 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |               |      |             |      |           |       |
| Aroclor-1016                           | 0.19                      | 0.083           | mg/Kg dry | 0.208                                 | ND            | 91.0 | 40-140      |      |           |       |
| Aroclor-1016 [2C]                      | 0.19                      | 0.083           | mg/Kg dry | 0.208                                 | ND            | 92.4 | 40-140      |      |           |       |
| Aroclor-1260                           | 0.16                      | 0.083           | mg/Kg dry | 0.208                                 | ND            | 76.5 | 40-140      |      |           |       |
| Aroclor-1260 [2C]                      | 0.17                      | 0.083           | mg/Kg dry | 0.208                                 | ND            | 81.8 | 40-140      |      |           |       |
| Surrogate: Decachlorobiphenyl          | 0.165                     |                 | mg/Kg dry | 0.208                                 |               | 79.5 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]     | 0.177                     |                 | mg/Kg dry | 0.208                                 |               | 85.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene        | 0.190                     |                 | mg/Kg dry | 0.208                                 |               | 91.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]   | 0.210                     |                 | mg/Kg dry | 0.208                                 |               | 101  | 30-150      |      |           |       |
| <b>Matrix Spike Dup (B186484-MSD1)</b> | <b>Source: 1710378-09</b> |                 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |               |      |             |      |           |       |
| Aroclor-1016                           | 0.16                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 76.7 | 40-140      | 5.63 | 50        |       |
| Aroclor-1016 [2C]                      | 0.15                      | 0.085           | mg/Kg dry | 0.212                                 | ND            | 71.7 | 40-140      | 3.97 | 50        |       |
| Aroclor-1260                           | 0.21                      | 0.085           | mg/Kg dry | 0.212                                 | 0.12          | 41.2 | 40-140      | 11.2 | 50        |       |
| Aroclor-1260 [2C]                      | 0.22                      | 0.085           | mg/Kg dry | 0.212                                 | 0.11          | 52.1 | 40-140      | 10.1 | 50        |       |
| Surrogate: Decachlorobiphenyl          | 0.160                     |                 | mg/Kg dry | 0.212                                 |               | 75.5 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]     | 0.194                     |                 | mg/Kg dry | 0.212                                 |               | 91.6 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene        | 0.198                     |                 | mg/Kg dry | 0.212                                 |               | 93.1 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]   | 0.179                     |                 | mg/Kg dry | 0.212                                 |               | 84.2 | 30-150      |      |           |       |

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## QUALITY CONTROL

## Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Batch B186484 - SW-846 3540C

| Matrix Spike Dup (B186484-MSD2)      |       | Source: 1710378-12 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |    |      |        |      |    |  |
|--------------------------------------|-------|--------------------|-----------|---------------------------------------|----|------|--------|------|----|--|
| Aroclor-1016                         | 0.19  | 0.082              | mg/Kg dry | 0.205                                 | ND | 90.7 | 40-140 | 6.99 | 50 |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.082              | mg/Kg dry | 0.205                                 | ND | 90.8 | 40-140 | 6.64 | 50 |  |
| Aroclor-1260                         | 0.15  | 0.082              | mg/Kg dry | 0.205                                 | ND | 74.5 | 40-140 | 4.12 | 50 |  |
| Aroclor-1260 [2C]                    | 0.16  | 0.082              | mg/Kg dry | 0.205                                 | ND | 76.7 | 40-140 | 4.80 | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.164 |                    | mg/Kg dry | 0.205                                 |    | 80.1 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.179 |                    | mg/Kg dry | 0.205                                 |    | 87.1 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.196 |                    | mg/Kg dry | 0.205                                 |    | 95.6 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.207 |                    | mg/Kg dry | 0.205                                 |    | 101  | 30-150 |      |    |  |

| Matrix Spike Dup (B186484-MSD3)      |       | Source: 1710378-15 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |    |      |        |      |    |  |
|--------------------------------------|-------|--------------------|-----------|---------------------------------------|----|------|--------|------|----|--|
| Aroclor-1016                         | 0.19  | 0.084              | mg/Kg dry | 0.210                                 | ND | 91.0 | 40-140 | 2.33 | 50 |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.084              | mg/Kg dry | 0.210                                 | ND | 90.7 | 40-140 | 1.20 | 50 |  |
| Aroclor-1260                         | 0.16  | 0.084              | mg/Kg dry | 0.210                                 | ND | 77.5 | 40-140 | 5.58 | 50 |  |
| Aroclor-1260 [2C]                    | 0.17  | 0.084              | mg/Kg dry | 0.210                                 | ND | 81.7 | 40-140 | 4.79 | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.165 |                    | mg/Kg dry | 0.210                                 |    | 78.7 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.179 |                    | mg/Kg dry | 0.210                                 |    | 85.2 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.192 |                    | mg/Kg dry | 0.210                                 |    | 91.6 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.202 |                    | mg/Kg dry | 0.210                                 |    | 96.2 | 30-150 |      |    |  |

| Matrix Spike Dup (B186484-MSD4)      |       | Source: 1710378-18 |           | Prepared: 09/18/17 Analyzed: 09/22/17 |    |      |        |       |    |  |
|--------------------------------------|-------|--------------------|-----------|---------------------------------------|----|------|--------|-------|----|--|
| Aroclor-1016                         | 0.19  | 0.083              | mg/Kg dry | 0.208                                 | ND | 89.7 | 40-140 | 1.51  | 50 |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.083              | mg/Kg dry | 0.208                                 | ND | 90.6 | 40-140 | 1.98  | 50 |  |
| Aroclor-1260                         | 0.16  | 0.083              | mg/Kg dry | 0.208                                 | ND | 77.2 | 40-140 | 0.976 | 50 |  |
| Aroclor-1260 [2C]                    | 0.17  | 0.083              | mg/Kg dry | 0.208                                 | ND | 83.5 | 40-140 | 2.09  | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.163 |                    | mg/Kg dry | 0.208                                 |    | 78.3 | 30-150 |       |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.174 |                    | mg/Kg dry | 0.208                                 |    | 83.7 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.182 |                    | mg/Kg dry | 0.208                                 |    | 87.5 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.194 |                    | mg/Kg dry | 0.208                                 |    | 93.3 | 30-150 |       |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                                | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC                                  | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|----------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|---------------------------------------|----------------|------|--------------|-------|
| <b>Batch B186472 - SW-846 3546</b>     |        |                    |           |                                       |                  |                                       |                |      |              |       |
| <b>Blank (B186472-BLK1)</b>            |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |                                       |                |      |              |       |
| CT ETPH                                | ND     | 10                 | mg/Kg wet |                                       |                  |                                       |                |      |              |       |
| Surrogate: o-Terphenyl                 | 2.75   |                    | mg/Kg wet | 3.33                                  |                  | 82.4                                  | 50-150         |      |              |       |
| <b>LCS (B186472-BS1)</b>               |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |                                       |                |      |              |       |
| CT ETPH                                | 24.8   | 10                 | mg/Kg wet | 33.3                                  |                  | 74.5                                  | 60-120         |      |              |       |
| Surrogate: o-Terphenyl                 | 2.85   |                    | mg/Kg wet | 3.33                                  |                  | 85.6                                  | 50-150         |      |              |       |
| <b>LCS Dup (B186472-BSD1)</b>          |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |                                       |                |      |              |       |
| CT ETPH                                | 24.2   | 10                 | mg/Kg wet | 33.3                                  |                  | 72.5                                  | 60-120         | 2.67 | 30           |       |
| Surrogate: o-Terphenyl                 | 2.73   |                    | mg/Kg wet | 3.33                                  |                  | 81.8                                  | 50-150         |      |              |       |
| <b>Matrix Spike (B186472-MS1)</b>      |        |                    |           | <b>Source: 1710378-12</b>             |                  | Prepared: 09/18/17 Analyzed: 09/20/17 |                |      |              |       |
| CT ETPH                                | 74.4   | 52                 | mg/Kg dry | 34.4                                  | 91.1             | -48.7 *                               | 50-150         |      |              | MS-09 |
| Surrogate: o-Terphenyl                 | 2.70   |                    | mg/Kg dry | 3.44                                  |                  | 78.4                                  | 50-150         |      |              |       |
| <b>Matrix Spike Dup (B186472-MSD1)</b> |        |                    |           | <b>Source: 1710378-12</b>             |                  | Prepared: 09/18/17 Analyzed: 09/20/17 |                |      |              |       |
| CT ETPH                                | 67.0   | 52                 | mg/Kg dry | 34.4                                  | 91.1             | -70.3 *                               | 50-150         | 10.5 | 30           | MS-09 |
| Surrogate: o-Terphenyl                 | 2.36   |                    | mg/Kg dry | 3.44                                  |                  | 68.7                                  | 50-150         |      |              |       |



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

| Analyte                             | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B186450 - SW-846 3050B</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B186450-BLK1)</b>         |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |      |              |       |
| Arsenic                             | ND     | 2.5                | mg/Kg wet |                                       |                  |      |                |      |              |       |
| <b>LCS (B186450-BS1)</b>            |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |      |              |       |
| Arsenic                             | 143    | 5.0                | mg/Kg wet | 157                                   |                  | 90.9 | 77.8-122.1     |      |              |       |
| <b>LCS Dup (B186450-BSD1)</b>       |        |                    |           | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |      |              |       |
| Arsenic                             | 146    | 4.8                | mg/Kg wet | 157                                   |                  | 93.1 | 77.8-122.1     | 2.31 | 30           |       |

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

| Analyte                         | Result                    | Reporting<br>Limit | Units | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD   | RPD<br>Limit | Notes |
|---------------------------------|---------------------------|--------------------|-------|---------------------------------------|------------------|------|----------------|-------|--------------|-------|
| <b>Batch B186437 - % Solids</b> |                           |                    |       |                                       |                  |      |                |       |              |       |
| <b>Duplicate (B186437-DUP1)</b> | <b>Source: 1710378-09</b> |                    |       | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |       |              |       |
| % Solids                        | 92.2                      |                    | % Wt  |                                       | 93.3             |      |                | 1.19  | 20           |       |
| <b>Duplicate (B186437-DUP2)</b> | <b>Source: 1710378-12</b> |                    |       | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |       |              |       |
| % Solids                        | 96.1                      |                    | % Wt  |                                       | 96.6             |      |                | 0.519 | 20           |       |
| <b>Duplicate (B186437-DUP3)</b> | <b>Source: 1710378-15</b> |                    |       | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |       |              |       |
| % Solids                        | 92.8                      |                    | % Wt  |                                       | 93.5             |      |                | 0.751 | 20           |       |
| <b>Duplicate (B186437-DUP4)</b> | <b>Source: 1710378-18</b> |                    |       | Prepared: 09/18/17 Analyzed: 09/19/17 |                  |      |                |       |              |       |
| % Solids                        | 96.0                      |                    | % Wt  |                                       | 96.3             |      |                | 0.312 | 20           |       |

# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC-9-SO-29-1

Lab Sample ID: 17I0378-04 Date(s) Analyzed: 09/22/2017 09/22/2017  
Instrument ID (1): Instrument ID (2):  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 74            |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 78            | 5.3  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC-9-SO-29-2**Lab Sample ID: 1710378-05 Date(s) Analyzed: 09/22/2017 09/22/2017

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 5.7           |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 5.9           | 3.5  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-2***SW-846 8082A*

Lab Sample ID: 17I0378-09 Date(s) Analyzed: 09/21/2017 09/21/2017  
Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_  
GC Column (1): \_\_\_\_\_ ID: \_\_\_\_\_ (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.12          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.11          | 8.7  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC-12W-SO-112-3***SW-846 8082A*

Lab Sample ID: 1710378-10 Date(s) Analyzed: 09/21/2017 09/21/2017  
Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_  
GC Column (1): \_\_\_\_\_ ID: \_\_\_\_\_ (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 6.5  |

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|       |                                                                                                                                                                                                                                   |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *     | QC result is outside of established limits.                                                                                                                                                                                       |
| †     | Wide recovery limits established for difficult compound.                                                                                                                                                                          |
| ‡     | Wide RPD limits established for difficult compound.                                                                                                                                                                               |
| #     | Data exceeded client recommended or regulatory level                                                                                                                                                                              |
| ND    | Not Detected                                                                                                                                                                                                                      |
| RL    | Reporting Limit                                                                                                                                                                                                                   |
| DL    | Method Detection Limit                                                                                                                                                                                                            |
| MCL   | Maximum Contaminant Level                                                                                                                                                                                                         |
|       | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.                                                                            |
|       | No results have been blank subtracted unless specified in the case narrative section.                                                                                                                                             |
| MS-09 | Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated. |
| S-01  | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.                                          |

# CERTIFICATIONS

## Certified Analyses included in this Report

| Analyte                       | Certifications    |
|-------------------------------|-------------------|
| <b>CTDEP ETPH in Soil</b>     |                   |
| CT ETPH                       | CT                |
| <b>SW-846 6010C-D in Soil</b> |                   |
| Arsenic                       | CT,NH,NY,ME,VA,NC |
| <b>SW-846 8082A in Soil</b>   |                   |
| Aroclor-1016                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1016 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1221                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1221 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1232                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1232 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1242                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1242 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1248                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1248 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1254                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1254 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1260                  | CT,NH,NY,ME,NC,VA |
| Aroclor-1260 [2C]             | CT,NH,NY,ME,NC,VA |
| Aroclor-1262                  | NY,NC,VA          |
| Aroclor-1262 [2C]             | NY,NC,VA          |
| Aroclor-1268                  | NY,NC,VA          |
| Aroclor-1268 [2C]             | NY,NC,VA          |

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

| Code  | Description                                  | Number        | Expires    |
|-------|----------------------------------------------|---------------|------------|
| AIHA  | AIHA-LAP, LLC - ISO17025:2005                | 100033        | 02/1/2018  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2018 |
| CT    | Connecticut Department of Public Health      | PH-0567       | 09/30/2019 |
| 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 |





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

Email: info@contestlabs.com

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

**Requested Turnaround Time**  
7-Day ☒ 10-Day ☐  
Other: ☐ 5-day ☐  
**Rush-Approval Required**  
1-Day ☐ 3-Day ☐  
2-Day ☐ 4-Day ☐  
**Data Delivery**  
Format: PDF ☒ EXCEL ☒  
Other: ☐  
**Enhanced Data Package Required:** ☐  
Email To: beelerm@wseinc.com  
Fax To #:

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 01                   | WS-PDC-15-50-20-1              | 9/11/17             | 1129             |           | X    | S           | U         |
| 02                   | WS-PDC-15-50-20-2              | 9/11/17             | 1130             |           | X    | S           | U         |
| 03                   | WS-PDC-15-50-20-3              | 9/11/17             | 1131             |           | X    | S           | U         |
| 04                   | WS-PDC-9-50-29-1               | 9/11/17             | 1140             |           | X    | S           | U         |
| 05                   | WS-PDC-9-50-29-2               | 9/11/17             | 1147             |           | X    | S           | U         |
| 06                   | WS-PDC-9-50-29-3               | 9/11/17             | 1148             |           | X    | S           | U         |
| 07                   | WS-PDC-9-50-29-4               | 9/11/17             | 1149             |           | X    | S           | U         |
| 08                   | WS-PDC-12W-50-112-1            | 9/11/17             | 1215             |           | X    | S           | U         |
| 09                   | WS-PDC-12W-50-112-2            | 9/11/17             | 1216             |           | X    | S           | U         |
| 10                   | WS-PDC-12W-50-112-3            | 9/11/17             | 1217             |           | X    | S           | U         |

Comments:

Please hold excess volumes for possible SPLP analyses.

Please do MSLMD for WS-PDC-12W-50-112-2

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

## Detection Limit Requirements

| Requisitioned by: (signature) | Date/Time:   | MA     |
|-------------------------------|--------------|--------|
| <i>[Signature]</i>            | 9/11/17 1445 |        |
| Received by: (signature)      | Date/Time:   | CT     |
| <i>[Signature]</i>            | 9/11/17 1445 |        |
| Requisitioned by: (signature) | Date/Time:   | Other: |
| <i>[Signature]</i>            | 9/11/17 1505 |        |
| Received by: (signature)      | Date/Time:   | Other: |
| <i>[Signature]</i>            | 9/11/17 1505 |        |
| Requisitioned by: (signature) | Date/Time:   | Other: |
| <i>[Signature]</i>            | 9/11/17 430  |        |
| Received by: (signature)      | Date/Time:   | Other: |
| <i>[Signature]</i>            | 9/11/17 1030 |        |

## Program Information

- ☐ MCP Analytical Certification Form Required  
☒ RCP Analytical Certification Form Required  
☐ MA State DW Form Required  
 PWSID # \_\_\_\_\_

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

1710378



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston &amp; Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Malcolm Beeler (Weston &amp; Sampson)

Chris Berthiaume / Will Sirotnak

|                                                                      |                                           |
|----------------------------------------------------------------------|-------------------------------------------|
| Requested Turnaround Time                                            |                                           |
| 7-Day <input checked="" type="checkbox"/>                            | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/>                                      |                                           |
| Rush Approval Required                                               |                                           |
| 1-Day <input type="checkbox"/>                                       | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                                       | 4-Day <input type="checkbox"/>            |
| Data Delivery                                                        |                                           |
| Format: PDF <input checked="" type="checkbox"/>                      | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                                      |                                           |
| Enhanced Data Package Required: <input type="checkbox"/>             |                                           |
| Email To: <a href="mailto:beelerm@wseinc.com">beelerm@wseinc.com</a> |                                           |
| Fax To #: <input type="text"/>                                       |                                           |

| Con-Test Work Order # | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|-----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 11                    | WS-PDC-12W-SD-111-1            | 9/11/17             | 0935             |           | X    | S           | U         |
| 12                    | WS-PDC-12W-SD-111-2            | 9/11/17             | 0936             |           | X    | S           | U         |
| 13                    | WS-PDC-12W-SD-111-3            | 9/11/17             | 0937             |           | X    | S           | U         |
| 14                    | WS-PDC-12W-SD-105-1            | 9/11/17             | 0938             |           | X    | S           | U         |
| 15                    | WS-PDC-12W-SD-105-2            | 9/11/17             | 0939             |           | X    | S           | U         |
| 16                    | WS-PDC-12W-SD-105-3            | 9/11/17             | 0940             |           | X    | S           | U         |
| 17                    | WS-PDC-12W-SD-110-1            | 9/11/17             | 0941             |           | X    | S           | U         |
| 18                    | WS-PDC-12W-SD-110-2            | 9/11/17             | 0947             |           | X    | S           | U         |
| 19                    | WS-PDC-12W-SD-110-3            | 9/11/17             | 0948             |           | X    | S           | U         |
| 20                    | WS-PDC-12W-SD-108-1            | 9/11/17             | 0954             |           | X    | S           | U         |

Comments:

Please hold excess volumes for possible SPLP analyses.

PLEASE DO MS/MSD ANALYSES FOR WS-PDC-12W-SD-111-2 FOR PCBs AND ETPH, AND FOR WS-PDC-12W-SD-105-2 FOR PCBs, AND WS-PDC-12W-SD-110-2 FOR PCBs.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

| Relinquished by: (signature) | Date/Time    | Detection Limit Requirements |
|------------------------------|--------------|------------------------------|
| <i>[Signature]</i>           | 9/11/17 1445 | MA                           |
| Received by: (signature)     | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1445 |                              |
| Relinquished by: (signature) | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 | RES DEC                      |
| Received by: (signature)     | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 |                              |
| Relinquished by: (signature) | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 |                              |
| Received by: (signature)     | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 |                              |
| Relinquished by: (signature) | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 |                              |
| Received by: (signature)     | Date/Time    |                              |
| <i>[Signature]</i>           | 9/11/17 1505 |                              |

## Program Information

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

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

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



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False**

**Statement will be brought to the attention of the Client - State True or False**

Client Weston K Sampson

Received By PLF Date 9/11/17 Time 11:30

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 - 23°C  
By Blank #        Actual Temp -       

Was Custody Seal Intact? NA Were Samples Tampered with? NA  
Was COC Relinquished? T Does Chain Agree With Samples? T

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

Is COC in ink/ Legible? T Were samples received within holding time? T  
Did COC include all Client T Analysis T Sampler Name T  
pertinent Information? Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T

Are there Lab to Filters? F Who was notified?       

Are there Rushes? F Who was notified?       

Are there Short Holds? F Who was notified?       

Is there enough Volume? T

Is there Headspace where applicable? NA MS/MSD? NA

Proper Media/Containers Used? T Is splitting samples required? F

Were trip blanks received? F On COC? NA

Do all samples have the proper pH?        Acid NA Base NA

| Vials        | # | Containers:   | # | #               | # | #                       |
|--------------|---|---------------|---|-----------------|---|-------------------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.              |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear <u>28</u> |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear           |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear           |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore                  |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:                 |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |                         |

**Unused Media**

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

Comments:

D:\HPCHEM\1\DATA\A091917.SEC\A0919137.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 9/20/17  
 Data File Name A0919137.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | %D +/- 20 |
|-------------|----------|-----------------|------------------|-----------|
| c - 9       | 1.28     | 620853          | 652710           | -5        |
| c - 10      | 1.63     | 631926          | 652710           | -3        |
| c - 12      | 2.34     | 650993          | 652710           | 0         |
| c - 14      | 3.01     | 660660          | 652710           | 1         |
| c - 16      | 3.61     | 672375          | 652710           | 3         |
| c - 18      | 4.22     | 661082          | 652710           | 1         |
| o-Terphenyl | 4.51     | 734754          | 652710           |           |
| c - 20      | 4.83     | 666433          | 652710           | 2         |
| c - 22      | 5.33     | 671692          | 652710           | 3         |
| c - 24      | 5.77     | 624925          | 652710           | -4        |
| c - 26      | 6.16     | 658424          | 652710           | 1         |
| c - 28      | 6.52     | 654250          | 652710           | 0         |
| c - 30      | 6.85     | 655163          | 652710           | 0         |
| c - 32      | 7.16     | 647569          | 652710           | -1        |
| c - 34      | 7.45     | 655759          | 652710           | 0         |
| c - 36      | 7.76     | 658546          | 652710           | 1         |

\* One compound allowed %D &lt;= 50%

**Samples**

17I0378-20  
 17I0380-01  
 17I0380-03  
 17I0241-04@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919035.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 9/19/17  
 Data File Name A0919035.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | ***D +/- 20 |
|-------------|----------|-----------------|------------------|-------------|
| c - 9       | 1.28     | 546711          | 576637           | -5          |
| c - 10      | 1.62     | 556905          | 576637           | -3          |
| c - 12      | 2.34     | 574213          | 576637           | 0           |
| c - 14      | 3.01     | 583332          | 576637           | 1           |
| c - 16      | 3.61     | 594004          | 576637           | 3           |
| c - 18      | 4.23     | 585093          | 576637           | 1           |
| o-Terphenyl | 4.51     | 648324          | 576637           |             |
| c - 20      | 4.83     | 589878          | 576637           | 2           |
| c - 22      | 5.33     | 595941          | 576637           | 3           |
| c - 24      | 5.77     | 554361          | 576637           | -4          |
| c - 26      | 6.16     | 583067          | 576637           | 1           |
| c - 28      | 6.52     | 578745          | 576637           | 0           |
| c - 30      | 6.85     | 578910          | 576637           | 0           |
| c - 32      | 7.16     | 570456          | 576637           | -1          |
| c - 34      | 7.45     | 576804          | 576637           | 0           |
| c - 36      | 7.77     | 581137          | 576637           | 1           |

\* One compound allowed %D &lt;= 50%

## Samples

17I0242-15@20X  
 17I0244-05@20X  
 17I0244-14@20X  
 17I0320-19@5X  
 17I0321-05@5X  
 17I0321-08@5X  
 17I0242-06@20X  
 17I0242-09@20X  
 17I0241-04@20X  
 17I0241-13@20X  
 17I0456-01@20X

D:\HPCHEM\1\DATA\A091917.SEC\A0919081.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 9/19/17  
 Data File Name A0919081.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.28     | 601774          | 632314           | -5         |
| c - 10      | 1.63     | 612165          | 632314           | -3         |
| c - 12      | 2.35     | 630848          | 632314           | 0          |
| c - 14      | 3.01     | 640223          | 632314           | 1          |
| c - 16      | 3.61     | 651756          | 632314           | 3          |
| c - 18      | 4.22     | 640680          | 632314           | 1          |
| o-Terphenyl | 4.51     | 710078          | 632314           |            |
| c - 20      | 4.83     | 645606          | 632314           | 2          |
| c - 22      | 5.33     | 652240          | 632314           | 3          |
| c - 24      | 5.77     | 606960          | 632314           | -4         |
| c - 26      | 6.16     | 638906          | 632314           | 1          |
| c - 28      | 6.52     | 633560          | 632314           | 0          |
| c - 30      | 6.85     | 633652          | 632314           | 0          |
| c - 32      | 7.16     | 624927          | 632314           | -1         |
| c - 34      | 7.45     | 634184          | 632314           | 0          |
| c - 36      | 7.77     | 637226          | 632314           | 1          |

\* One compound allowed %D &lt;= 50%

## Samples

17I0531-03  
 17I0531-04  
 17I0656-01  
 17I0378-12@5X  
 17I0378-14@10X  
 17I0319-08@5X  
 17I0319-16@5X  
 17I0320-08@5X  
 17I0320-12@5X  
 17I0321-02@20X  
 17I0455-01@20X  
 17I0531-01  
 17I0531-02

D:\HPCHEM\1\DATA\A092017.SEC\A0920031.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 9/20/17  
 Data File Name A0920031.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | ">%D +/- 20 |
|-------------|----------|-----------------|------------------|-------------|
| c - 9       | 1.28     | 541173          | 562711           | -4          |
| c - 10      | 1.62     | 549935          | 562711           | -2          |
| c - 12      | 2.34     | 566528          | 562711           | 1           |
| c - 14      | 3.01     | 574189          | 562711           | 2           |
| c - 16      | 3.61     | 582627          | 562711           | 4           |
| c - 18      | 4.22     | 570510          | 562711           | 1           |
| o-Terphenyl | 4.51     | 631761          | 562711           |             |
| c - 20      | 4.83     | 572845          | 562711           | 2           |
| c - 22      | 5.33     | 578821          | 562711           | 3           |
| c - 24      | 5.77     | 538783          | 562711           | -4          |
| c - 26      | 6.16     | 569323          | 562711           | 1           |
| c - 28      | 6.52     | 564215          | 562711           | 0           |
| c - 30      | 6.85     | 562306          | 562711           | 0           |
| c - 32      | 7.16     | 552003          | 562711           | -2          |
| c - 34      | 7.45     | 557640          | 562711           | -1          |
| c - 36      | 7.76     | 559760          | 562711           | -1          |

\* One compound allowed %D &lt;= 50%

**Samples**

17I0719-02@5X  
 17I0719-03@50X  
 17I0719-05@100X  
 17I0719-06@100X  
 17I0719-14@100X  
 17I0719-01@100X  
 17I0378-19@5X  
 17I0379-03@50X  
 17I0378-01@50X  
 17I0380-04@5X  
 17I0380-06@20X  
 17I0380-02@10X  
 17I0517-13

D:\HPCHEM\1\DATA\A092017.SEC\A0920079.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 9/20/17  
Data File Name A0920079.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | ">%D +/- 20 |
|-------------|----------|-----------------|------------------|-------------|
| c - 9       | 1.28     | 593179          | 621951           | -5          |
| c - 10      | 1.62     | 601870          | 621951           | -3          |
| c - 12      | 2.34     | 620530          | 621951           | 0           |
| c - 14      | 3.01     | 631091          | 621951           | 1           |
| c - 16      | 3.61     | 641967          | 621951           | 3           |
| c - 18      | 4.22     | 630375          | 621951           | 1           |
| o-Terphenyl | 4.51     | 697469          | 621951           |             |
| c - 20      | 4.83     | 634151          | 621951           | 2           |
| c - 22      | 5.33     | 640559          | 621951           | 3           |
| c - 24      | 5.77     | 596341          | 621951           | -4          |
| c - 26      | 6.16     | 629258          | 621951           | 1           |
| c - 28      | 6.52     | 625172          | 621951           | 1           |
| c - 30      | 6.85     | 625957          | 621951           | 1           |
| c - 32      | 7.16     | 616353          | 621951           | -1          |
| c - 34      | 7.45     | 620644          | 621951           | 0           |
| c - 36      | 7.76     | 621823          | 621951           | 0           |

\* One compound allowed %D &lt;= 50%

**Samples**

17I0517-04  
17I0517-09  
17I0517-12  
17I0462-04  
17I0462-17  
17I0462-20  
17I0463-12  
17I0241-10RE1@5X





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

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

**Client:** Weston & Sampson

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

**Project Number:** 17I0378

**Laboratory Sample ID(s):**

17I0378-01 thru 17I0378-20

**Sample Date(s):**

09/11/2017

**List RCP Methods Used:**

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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 09/22/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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

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

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

REPORT DATE: 9/6/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0867

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

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

| FIELD SAMPLE #     | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                     | SUB LAB |
|--------------------|------------|--------|--------------------|--------------------------|---------|
| WS-AOC12W-SO-48-2  | 17G0867-01 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-48-3  | 17G0867-02 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-88-1  | 17G0867-03 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-88-2A | 17G0867-04 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-88-2B | 17G0867-05 | Soil   |                    | CTDEP ETPH<br>SM 2540G   |         |
| WS-AOC12W-SO-88-3  | 17G0867-06 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-88-4  | 17G0867-07 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-98-1  | 17G0867-08 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-98-2A | 17G0867-09 | Water  |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-98-2B | 17G0867-10 | Soil   |                    | SM 2540G<br>SW-846 8270D |         |
| WS-AOC12W-SO-98-3  | 17G0867-11 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-98-4  | 17G0867-12 | Water  |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-97-1  | 17G0867-13 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-97-2A | 17G0867-14 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-97-2B | 17G0867-15 | Soil   |                    | SM 2540G<br>SW-846 8270D |         |
| WS-AOC12W-SO-97-3  | 17G0867-16 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-97-4  | 17G0867-17 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-89-1  | 17G0867-18 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-89-2  | 17G0867-19 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-89-3  | 17G0867-20 | 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.

REVISED REPORT 09/06/17 - Sample IDs updated per client request.

REVISED REPORT 08/15/17 - Sample IDs updated per chain of custody.

For method 8270, only PAHs were requested and reported.

SW-846 8082A

#### Qualifications:

##### S-01

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

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

##### Decachlorobiphenyl

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

##### Decachlorobiphenyl [2C]

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

##### Tetrachloro-m-xylene

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

##### Tetrachloro-m-xylene [2C]

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, reading "James Georgantas", with a long horizontal flourish extending to the right.

James M. Georgantas

Project Management Supervisor

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 22:45      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 102        | 30-150          |           |          |           |              |               | 7/31/17 22:45      |         |
| Decachlorobiphenyl [2]   | 112        | 30-150          |           |          |           |              |               | 7/31/17 22:45      |         |
| Tetrachloro-m-xylene [1] | 89.6       | 30-150          |           |          |           |              |               | 7/31/17 22:45      |         |
| Tetrachloro-m-xylene [2] | 95.3       | 30-150          |           |          |           |              |               | 7/31/17 22:45      |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 10:32

Sample ID: 17G0867-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.8    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:03      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 115        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 92.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 98.0       | 30-150          |           |          |           |              |               |                    |         |



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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 10:34

Sample ID: 17G0867-02

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1260 [2]         | 0.22       | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:21      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 92.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 101        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 86.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.7       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:25

Sample ID: 17G0867-03

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1260 [2]         | 0.78       | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:39      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 104        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 84.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 91.4       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:26

Sample ID: 17G0867-04

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:27

Sample ID: 17G0867-05

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1260 [2]         | 0.95       | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 7/31/17 23:57      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 103        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 86.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 90.9       | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:28

Sample ID: 17G0867-06

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.2    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1260 [2]         | 0.22       | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:15        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 111        | 30-150          |           |          |           |              |               | 8/1/17 0:15        |         |
| Decachlorobiphenyl [2]   | 121        | 30-150          |           |          |           |              |               | 8/1/17 0:15        |         |
| Tetrachloro-m-xylene [1] | 102        | 30-150          |           |          |           |              |               | 8/1/17 0:15        |         |
| Tetrachloro-m-xylene [2] | 108        | 30-150          |           |          |           |              |               | 8/1/17 0:15        |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:29

Sample ID: 17G0867-07

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 89.5    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-1

Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1260 [2]         | 0.70       | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:33        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 104        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 114        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 91.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 97.8       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-1

Sampled: 7/20/2017 13:30

Sample ID: 17G0867-08

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-2A

Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1260 [2]         | 0.73       | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 0:51        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 95.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 105        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 87.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.3       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-2A

Sampled: 7/20/2017 13:31

Sample ID: 17G0867-09

Sample Matrix: Water

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 94.0    |    | % Wt  | 1        |           | SM 2540G | 7/27/17       | 7/28/17 10:26      | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-2B

Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

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



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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-2B

Sampled: 7/20/2017 13:32

Sample ID: 17G0867-10

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.1    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-3

Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 1:58        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 122        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 87.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.5       | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-3

Sampled: 7/20/2017 13:33

Sample ID: 17G0867-11

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-4

Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

Field Sample #: WS-AOC12W-SO-98-4

Sampled: 7/20/2017 13:34

Sample ID: 17G0867-12

Sample Matrix: Water

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:57

Sample ID: 17G0867-13

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 99.5    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1260 [2]         | 0.12       | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 2:53        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 105        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 114        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 95.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 100        | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:59

Sample ID: 17G0867-14

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:01

Sample ID: 17G0867-15

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:03

Sample ID: 17G0867-16

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 89.6    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 14:05

Sample ID: 17G0867-17

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.5    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1260 [2]         | 0.40       | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 3:48        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.8       | 30-150          |           |          |           |              |               | 8/1/17 3:48        |         |
| Decachlorobiphenyl [2]   | 103        | 30-150          |           |          |           |              |               | 8/1/17 3:48        |         |
| Tetrachloro-m-xylene [1] | 86.3       | 30-150          |           |          |           |              |               | 8/1/17 3:48        |         |
| Tetrachloro-m-xylene [2] | 90.9       | 30-150          |           |          |           |              |               | 8/1/17 3:48        |         |



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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:50

Sample ID: 17G0867-18

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

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

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:51

Sample ID: 17G0867-19

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.7    |    | % Wt  | 1        |           | SM 2540G | 7/27/17          | 7/28/17 10:26         | MRL     |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/27/17       | 8/1/17 4:23        | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 113        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 129        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 108        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 113        | 30-150          |           |          |           |              |               |                    |         |

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

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

Sample Description:

Work Order: 17G0867

Date Received: 7/20/2017

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

Sampled: 7/20/2017 13:52

Sample ID: 17G0867-20

Sample Matrix: Soil

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

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

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

### Sample Extraction Data

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

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

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

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

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

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

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

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

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

**Sample Extraction Data**

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

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0867-15 [WS-AOC12W-SO-97-2B] | B182710 | 30.0        | 1.00       | 07/27/17 |

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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182710 - SW-846 3546**
**Blank (B182710-BLK1)**

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

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Acenaphthylene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Anthracene                  | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)anthracene          | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)pyrene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(b)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(g,h,i)perylene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(k)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Chrysene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Dibenz(a,h)anthracene       | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluoranthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluorene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Indeno(1,2,3-cd)pyrene      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| 2-Methylnaphthalene         | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Naphthalene                 | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Phenanthrene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Pyrene                      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.49 |      | mg/Kg wet | 3.33 |  | 74.7 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.57 |      | mg/Kg wet | 3.33 |  | 77.0 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.81 |      | mg/Kg wet | 3.33 |  | 84.2 | 30-130 |  |  |  |

**LCS (B182710-BS1)**

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

|                             |       |      |           |      |  |      |        |  |  |  |
|-----------------------------|-------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | 1.03  | 0.17 | mg/Kg wet | 1.67 |  | 61.8 | 40-140 |  |  |  |
| Acenaphthylene              | 0.983 | 0.17 | mg/Kg wet | 1.67 |  | 59.0 | 40-140 |  |  |  |
| Anthracene                  | 1.05  | 0.17 | mg/Kg wet | 1.67 |  | 62.9 | 40-140 |  |  |  |
| Benzo(a)anthracene          | 0.959 | 0.17 | mg/Kg wet | 1.67 |  | 57.5 | 40-140 |  |  |  |
| Benzo(a)pyrene              | 1.12  | 0.17 | mg/Kg wet | 1.67 |  | 67.3 | 40-140 |  |  |  |
| Benzo(b)fluoranthene        | 0.963 | 0.17 | mg/Kg wet | 1.67 |  | 57.8 | 40-140 |  |  |  |
| Benzo(g,h,i)perylene        | 1.08  | 0.17 | mg/Kg wet | 1.67 |  | 64.9 | 40-140 |  |  |  |
| Benzo(k)fluoranthene        | 1.07  | 0.17 | mg/Kg wet | 1.67 |  | 64.0 | 40-140 |  |  |  |
| Chrysene                    | 0.920 | 0.17 | mg/Kg wet | 1.67 |  | 55.2 | 40-140 |  |  |  |
| Dibenz(a,h)anthracene       | 1.06  | 0.17 | mg/Kg wet | 1.67 |  | 63.5 | 40-140 |  |  |  |
| Fluoranthene                | 1.03  | 0.17 | mg/Kg wet | 1.67 |  | 61.5 | 40-140 |  |  |  |
| Fluorene                    | 1.02  | 0.17 | mg/Kg wet | 1.67 |  | 61.0 | 40-140 |  |  |  |
| Indeno(1,2,3-cd)pyrene      | 1.06  | 0.17 | mg/Kg wet | 1.67 |  | 63.7 | 40-140 |  |  |  |
| 2-Methylnaphthalene         | 1.01  | 0.17 | mg/Kg wet | 1.67 |  | 60.4 | 40-140 |  |  |  |
| Naphthalene                 | 0.941 | 0.17 | mg/Kg wet | 1.67 |  | 56.5 | 40-140 |  |  |  |
| Phenanthrene                | 1.03  | 0.17 | mg/Kg wet | 1.67 |  | 62.0 | 40-140 |  |  |  |
| Pyrene                      | 1.01  | 0.17 | mg/Kg wet | 1.67 |  | 60.4 | 40-140 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.14  |      | mg/Kg wet | 3.33 |  | 64.1 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.17  |      | mg/Kg wet | 3.33 |  | 65.2 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.12  |      | mg/Kg wet | 3.33 |  | 63.6 | 30-130 |  |  |  |



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<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182710 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B182710-BSD1)</b>      |        |                    |           |                | Prepared: 07/27/17 Analyzed: 07/31/17 |      |                |      |              |       |
| Acenaphthene                       | 1.06   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.3 | 40-140         | 2.36 | 30           |       |
| Acenaphthylene                     | 1.04   | 0.17               | mg/Kg wet | 1.67           |                                       | 62.5 | 40-140         | 5.70 | 30           |       |
| Anthracene                         | 1.08   | 0.17               | mg/Kg wet | 1.67           |                                       | 64.9 | 40-140         | 3.22 | 30           |       |
| Benzo(a)anthracene                 | 1.02   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.2 | 40-140         | 6.17 | 30           |       |
| Benzo(a)pyrene                     | 1.19   | 0.17               | mg/Kg wet | 1.67           |                                       | 71.2 | 40-140         | 5.63 | 30           |       |
| Benzo(b)fluoranthene               | 1.06   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.3 | 40-140         | 9.15 | 30           |       |
| Benzo(g,h,i)perylene               | 1.16   | 0.17               | mg/Kg wet | 1.67           |                                       | 69.5 | 40-140         | 6.78 | 30           |       |
| Benzo(k)fluoranthene               | 1.17   | 0.17               | mg/Kg wet | 1.67           |                                       | 69.9 | 40-140         | 8.78 | 30           |       |
| Chrysene                           | 0.990  | 0.17               | mg/Kg wet | 1.67           |                                       | 59.4 | 40-140         | 7.30 | 30           |       |
| Dibenz(a,h)anthracene              | 1.13   | 0.17               | mg/Kg wet | 1.67           |                                       | 67.9 | 40-140         | 6.70 | 30           |       |
| Fluoranthene                       | 1.08   | 0.17               | mg/Kg wet | 1.67           |                                       | 64.6 | 40-140         | 4.88 | 30           |       |
| Fluorene                           | 1.08   | 0.17               | mg/Kg wet | 1.67           |                                       | 64.9 | 40-140         | 6.16 | 30           |       |
| Indeno(1,2,3-cd)pyrene             | 1.19   | 0.17               | mg/Kg wet | 1.67           |                                       | 71.2 | 40-140         | 11.1 | 30           |       |
| 2-Methylnaphthalene                | 1.14   | 0.17               | mg/Kg wet | 1.67           |                                       | 68.7 | 40-140         | 12.8 | 30           |       |
| Naphthalene                        | 1.05   | 0.17               | mg/Kg wet | 1.67           |                                       | 62.8 | 40-140         | 10.5 | 30           |       |
| Phenanthrene                       | 1.10   | 0.17               | mg/Kg wet | 1.67           |                                       | 66.3 | 40-140         | 6.70 | 30           |       |
| Pyrene                             | 1.10   | 0.17               | mg/Kg wet | 1.67           |                                       | 66.1 | 40-140         | 9.04 | 30           |       |
| Surrogate: Nitrobenzene-d5         | 2.44   |                    | mg/Kg wet | 3.33           |                                       | 73.3 | 30-130         |      |              |       |
| Surrogate: 2-Fluorobiphenyl        | 2.29   |                    | mg/Kg wet | 3.33           |                                       | 68.6 | 30-130         |      |              |       |
| Surrogate: p-Terphenyl-d14         | 2.32   |                    | mg/Kg wet | 3.33           |                                       | 69.6 | 30-130         |      |              |       |

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 B182736 - SW-846 3540C**
**Blank (B182736-BLK1)**

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

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1016 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.206 |       | mg/Kg wet | 0.200 |  | 103  | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.217 |       | mg/Kg wet | 0.200 |  | 108  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.194 |       | mg/Kg wet | 0.200 |  | 97.0 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.196 |       | mg/Kg wet | 0.200 |  | 98.2 | 30-150 |  |  |  |

**LCS (B182736-BS1)**

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

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 84.4 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.020 | mg/Kg wet | 0.200 |  | 93.2 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 76.6 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 84.7 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.196 |       | mg/Kg wet | 0.200 |  | 98.2 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.206 |       | mg/Kg wet | 0.200 |  | 103  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.186 |       | mg/Kg wet | 0.200 |  | 93.1 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.186 |       | mg/Kg wet | 0.200 |  | 93.0 | 30-150 |  |  |  |

**LCS Dup (B182736-BSD1)**

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

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 82.1 | 40-140 | 2.76 | 30 |  |
| Aroclor-1016 [2C]                    | 0.18  | 0.020 | mg/Kg wet | 0.200 |  | 90.1 | 40-140 | 3.42 | 30 |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.7 | 40-140 | 3.89 | 30 |  |
| Aroclor-1260 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 81.2 | 40-140 | 4.13 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.189 |       | mg/Kg wet | 0.200 |  | 94.3 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.198 |       | mg/Kg wet | 0.200 |  | 99.2 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.179 |       | mg/Kg wet | 0.200 |  | 89.7 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.181 |       | mg/Kg wet | 0.200 |  | 90.5 | 30-150 |      |    |  |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182736 - SW-846 3540C**
**Matrix Spike (B182736-MS1)**
**Source: 17G0867-01**

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

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

**Matrix Spike Dup (B182736-MSD1)**
**Source: 17G0867-01**

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

|                                      |       |      |           |       |    |      |        |      |    |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|------|----|--|
| Aroclor-1016                         | 0.22  | 0.11 | mg/Kg dry | 0.220 | ND | 98.2 | 40-140 | 2.54 | 50 |  |
| Aroclor-1016 [2C]                    | 0.25  | 0.11 | mg/Kg dry | 0.220 | ND | 112  | 40-140 | 2.18 | 50 |  |
| Aroclor-1260                         | 0.19  | 0.11 | mg/Kg dry | 0.220 | ND | 87.7 | 40-140 | 1.84 | 50 |  |
| Aroclor-1260 [2C]                    | 0.22  | 0.11 | mg/Kg dry | 0.220 | ND | 102  | 40-140 | 1.51 | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.226 |      | mg/Kg dry | 0.220 |    | 102  | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.244 |      | mg/Kg dry | 0.220 |    | 111  | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.199 |      | mg/Kg dry | 0.220 |    | 90.2 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.214 |      | mg/Kg dry | 0.220 |    | 97.2 | 30-150 |      |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182711 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>Blank (B182711-BLK1)</b>        |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/27/17 Analyzed: 08/01/17 |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                |                                       |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 3.13   |                    | mg/Kg wet | 3.33           |                                       | 93.9 | 50-150         |      |              |       |
| <b>LCS (B182711-BS1)</b>           |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/27/17 Analyzed: 08/01/17 |      |                |      |              |       |
| CT ETPH                            | 29.4   | 10                 | mg/Kg wet | 33.3           |                                       | 88.2 | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 2.65   |                    | mg/Kg wet | 3.33           |                                       | 79.5 | 50-150         |      |              |       |
| <b>LCS Dup (B182711-BSD1)</b>      |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/27/17 Analyzed: 08/01/17 |      |                |      |              |       |
| CT ETPH                            | 28.3   | 10                 | mg/Kg wet | 33.3           |                                       | 85.0 | 60-120         | 3.69 | 30           |       |
| Surrogate: o-Terphenyl             | 2.56   |                    | mg/Kg wet | 3.33           |                                       | 76.9 | 50-150         |      |              |       |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182677 - % Solids**
**Duplicate (B182677-DUP5)**
**Source: 17G0867-10**

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

|          |      |  |      |  |      |  |  |      |    |  |
|----------|------|--|------|--|------|--|--|------|----|--|
| % Solids | 90.1 |  | % Wt |  | 90.1 |  |  | 0.00 | 20 |  |
|----------|------|--|------|--|------|--|--|------|----|--|

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-88-1***SW-846 8082A*

Lab Sample ID: 17G0867-03 Date(s) Analyzed 07/31/2017 07/31/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.18          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.22          | 20.0 |

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-88-2A***SW-846 8082A*

Lab Sample ID: 17G0867-04 Date(s) Analyzed 07/31/2017 07/31/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.71          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.78          | 9.4  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-88-3***SW-846 8082A*

Lab Sample ID: 17G0867-06 Date(s) Analyzed 07/31/2017 07/31/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.86          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.95          | 9.9  |



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC12W-SO-88-4**

Lab Sample ID: 17G0867-07 Date(s) Analyzed 08/01/2017 08/01/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.19          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.22          | 14.6 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

WS-AOC12W-SO-87-1

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

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.62          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.70          | 12.1 |

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-87-2A***SW-846 8082A*

Lab Sample ID: 17G0867-09 Date(s) Analyzed 08/01/2017 08/01/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.63          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.73          | 13.1 |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-87-4***SW-846 8082A*

Lab Sample ID: 17G0867-12 Date(s) Analyzed 08/01/2017 08/01/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 5.0           |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 5.7           | 13.1 |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-89-1***SW-846 8082A*

Lab Sample ID: 17G0867-18 Date(s) Analyzed 08/01/2017 08/01/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.35          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.40          | 13.3 |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC12W-SO-89-2**

Lab Sample ID: 17G0867-19 Date(s) Analyzed 08/01/2017 08/01/2017  
Instrument ID (1): ECD1 Instrument ID (2): ECD1  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.61          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.70          | 13.7 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

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

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.19          | 11.1 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.17          | 12.5 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS Dup

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

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 11.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 6.5  |



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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*
**Matrix Spike**

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

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.22          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.24          | 8.7  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.19          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.22          | 14.6 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

Matrix Spike Dup

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

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.22          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.25          | 12.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.19          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.22          | 14.6 |

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**FLAG/QUALIFIER SUMMARY**

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

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                            | Certifications    |
|------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>   |                   |
| CT ETPH                            | CT                |
| <b><i>SW-846 8082A in Soil</i></b> |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b> |                   |
| Acenaphthene                       | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                     | CT,NY,NH,ME,NC,VA |
| Anthracene                         | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                 | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                     | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene               | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene               | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene               | CT,NY,NH,ME,NC,VA |
| Chrysene                           | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene              | CT,NY,NH,ME,NC,VA |
| Fluoranthene                       | CT,NY,NH,ME,NC,VA |
| Fluorene                           | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene             | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                | CT,NY,NH,ME,NC,VA |
| Naphthalene                        | CT,NY,NH,ME,NC,VA |
| Phenanthrene                       | CT,NY,NH,ME,NC,VA |
| Pyrene                             | CT,NY,NH,ME,NC,VA |

---

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

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

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



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston &amp; Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston &amp; Sampson)

Sampled By: Chris Berthiaume/Will Sirotinak

| Requested Turnaround Time                                |                                           |
|----------------------------------------------------------|-------------------------------------------|
| 7-Day <input checked="" type="checkbox"/>                | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/>                          |                                           |
| Rush Approval Required                                   |                                           |
| 1-Day <input type="checkbox"/>                           | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                           | 4-Day <input type="checkbox"/>            |
| Data Delivery                                            |                                           |
| Format: PDF <input checked="" type="checkbox"/>          | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                          |                                           |
| Enhanced Data Package Required: <input type="checkbox"/> |                                           |
| Email To: beelerm@wseinc.com                             |                                           |
| Fax To #:                                                |                                           |

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 1                    | WS-ACC12W-SO-48-2              | 1/20/17             | 10:32            |           | X    | S           | U         |
| 2                    | WS-ACC12W-SO-48-3              |                     | 10:34            |           |      |             |           |
| 3                    | WS-ACC12W-SO-88-1              |                     | 13:25            |           |      |             |           |
| 4                    | WS-ACC12W-SO-88-2A             |                     | 13:26            |           |      |             |           |
| 5                    | WS-ACC12W-SO-88-2B             |                     | 13:27            |           |      |             |           |
| 6                    | WS-ACC12W-SO-88-3              |                     | 13:28            |           |      |             |           |
| 7                    | WS-ACC12W-SO-88-4              |                     | 13:29            |           |      |             |           |
| 8                    | WS-ACC12W-SO-87-1              |                     | 13:30            |           |      |             |           |
| 9                    | WS-ACC12W-SO-87-2A             |                     | 13:31            |           |      |             |           |
| 10                   | WS-ACC12W-SO-87-2B             |                     | 13:32            |           |      |             |           |

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

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

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

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

## ANALYSIS REQUESTED

ARSENIC  
 SPLP ETPH  
 ETPH  
 PAHs  
 SPLP PCBs  
 (Box plot) PCBs

## Program Information

☐ MCP Analytical Certification Form Required  
☒ RCP Analysis Certification Form Required  
☐ MA State DW Form Required  
 PWSID # \_\_\_\_\_

NELAC and AIHA-LAP, LLC Accredited

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

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

Relinquished by: (signature)

Date/Time: 7/20/17 1535

Received by: (signature)

Date/Time: 7/20/17 1335

Relinquished by: (signature)

Date/Time: 7/20/17 1335

Received by: (signature)

Date/Time: 7/20/17 1830

Relinquished by: (signature)

Date/Time: 7/20/17 1830

Received by: (signature)

Date/Time: 7/20/17 1830

## CHAIN OF CUSTODY RECORD

1760867



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston &amp; Sampson Engineers

273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

English Station

510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston &amp; Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

| Requested Turnaround Time                                |                                           |
|----------------------------------------------------------|-------------------------------------------|
| 7-Day <input checked="" type="checkbox"/>                | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/>                          |                                           |
| Rush Approval Required                                   |                                           |
| 1-Day <input type="checkbox"/>                           | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                           | 4-Day <input type="checkbox"/>            |
| Data Delivery                                            |                                           |
| Format: PDF <input checked="" type="checkbox"/>          | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                          |                                           |
| Enhanced Data Package Required: <input type="checkbox"/> |                                           |
| Email To: beelerm@wseinc.com                             |                                           |
| Fax To #:                                                |                                           |

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 11                   | WS-AOC12W-50-87-3              | 7/20/17             | 13:33            |           | X    | S           | U         |
| 12                   | WS-AOC12W-50-87-4              |                     | 13:34            |           |      |             |           |
| 13                   | WS-AOC12W-50-97-1              |                     | 13:57            |           |      |             |           |
| 14                   | WS-AOC12W-50-97-2A             |                     | 13:59            |           |      |             |           |
| 15                   | WS-AOC12W-50-97-2B             |                     | 14:01            |           |      |             |           |
| 16                   | WS-AOC12W-50-97-3              |                     | 14:03            |           |      |             |           |
| 17                   | WS-AOC12W-50-97-4              |                     | 14:05            |           |      |             |           |
| 18                   | WS-AOC12W-50-89-1              |                     | 13:50            |           |      |             |           |
| 19                   | WS-AOC12W-50-89-2              |                     | 13:51            |           |      |             |           |
| 20                   | WS-AOC12W-50-89-3              |                     | 13:52            |           |      |             |           |

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

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

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

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

## ANALYSIS REQUESTED

Arsenic  
 SPLP ETPH  
 ETPH  
 PAHs  
 SPLP PCBs  
 (Soxhlet) PCBs

## 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 SM Date 7/20/17 Time 1830

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

Were samples within Temperature? 2-6°C T By Gun # 2 Actual Temp - 4.5, 3.4, 3.2  
By Blank # \_\_\_\_\_ Actual Temp - \_\_\_\_\_

Was Custody Seal Intact? N/A Were Samples Tampered with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

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

Are there Rushes? N/A Who was notified? \_\_\_\_\_

Are there Short Holds? N/A Who was notified? \_\_\_\_\_

Is there enough Volume? T

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

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

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

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

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

**Unused Media**

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

Comments:



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

---

Jim,

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

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

Thanks!

**Tim Schiavone**  
ENVIRONMENTAL SCIENTIST II



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D:\HPCHEM\1\DATA\A080217\A0802052.D

**CT ETPH DISCRIMINATION CHECK**

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

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

\* One compound allowed %D &lt;= 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 &lt;= 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 &lt;= 50%

**Samples**

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



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

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

**Client:** Weston & Sampson

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

**Project Number:** 17G0867

**Laboratory Sample ID(s):**

17G0867-01 thru 17G0867-20

**Sample Date(s):**

07/20/2017

**List RCP Methods Used:**

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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 08/03/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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

From: [Patel, Akanksha](#)  
To: [Jim Georgantas](#)  
Cc: [Beeler, Malcolm](#); [Schiavone, Timothy](#); [McGrath, Loren](#)  
Subject: English Station: Sample Location Change  
Date: Wednesday, September 06, 2017 3:02:59 PM  
Attachments: [image001.png](#)

---

Hey Jim!

We noticed we have two sets of samples of 87. The one that is dated 7/20/17 is actually supposed to be 98. Can you please change the 87 to 98 on both the pdf and CTRSR on work order 17G0867.

Thanks so much!

**Akanksha Patel**

Engineering Assistant

[patelA@wseinc.com](mailto:patelA@wseinc.com)

Office: 860-513-1473 ext. 3071

Direct: 860-956-6945



Weston & Sampson

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August 31, 2017

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

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

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

Sincerely,

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

James M. Georgantas  
Project Manager

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

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

REPORT DATE: 8/31/2017

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

---

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

REPORT DATE: 8/31/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 17G1169

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

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

| FIELD SAMPLE #    | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                     | SUB LAB |
|-------------------|------------|--------|--------------------|--------------------------|---------|
| WS-AOC12W-SO-96-4 | 17G1169-20 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |

**CASE NARRATIVE SUMMARY**

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

For method 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.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 74.6    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |



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

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

Sample Description:

Work Order: 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 80.9    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 91.6    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 62.8       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 82.1       | 30-130          |           |          |           |              |               |                    |         |

39 Spruce Street \* 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.0    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2

Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:15       | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 88.6       | 30-150          |           |          |           |              |               | 8/4/17 19:15       |         |
| Decachlorobiphenyl [2]   | 91.2       | 30-150          |           |          |           |              |               | 8/4/17 19:15       |         |
| Tetrachloro-m-xylene [1] | 83.5       | 30-150          |           |          |           |              |               | 8/4/17 19:15       |         |
| Tetrachloro-m-xylene [2] | 87.5       | 30-150          |           |          |           |              |               | 8/4/17 19:15       |         |



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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-6-2

Sampled: 7/25/2017 15:14

Sample ID: 17G1169-06

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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     |

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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-13-1A

Sampled: 7/25/2017 15:34

Sample ID: 17G1169-08

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 19:39       | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 113        | 30-150          |           |          |           |              |               | 8/4/17 19:39       |         |
| Decachlorobiphenyl [2]   | 109        | 30-150          |           |          |           |              |               | 8/4/17 19:39       |         |
| Tetrachloro-m-xylene [1] | 101        | 30-150          |           |          |           |              |               | 8/4/17 19:39       |         |
| Tetrachloro-m-xylene [2] | 104        | 30-150          |           |          |           |              |               | 8/4/17 19:39       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.7    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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-13-1B

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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 88.0    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |



39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 87.8    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.4    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 113        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 101        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 106        | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 97.6    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.0    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 102        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 90.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 92.9       | 30-150          |           |          |           |              |               |                    |         |



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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12E-SO-9-3

Sampled: 7/25/2017 15:54

Sample ID: 17G1169-14

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 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     |

39 Spruce Street \* 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-50-2A

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       |         |

39 Spruce Street \* 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-50-2A

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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 96.8    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 55.6       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 74.4       | 30-130          |           |          |           |              |               |                    |         |

39 Spruce Street \* 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       |         |

39 Spruce Street \* 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

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**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | ND      | 2.6 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/27/17          | 7/31/17 14:55         | 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 96.4    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 96.8    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4

Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 8/3/17        | 8/4/17 22:06       | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 111        | 30-150          |           |          |           |              |               | 8/4/17 22:06       |         |
| Decachlorobiphenyl [2]   | 103        | 30-150          |           |          |           |              |               | 8/4/17 22:06       |         |
| Tetrachloro-m-xylene [1] | 85.4       | 30-150          |           |          |           |              |               | 8/4/17 22:06       |         |
| Tetrachloro-m-xylene [2] | 87.8       | 30-150          |           |          |           |              |               | 8/4/17 22:06       |         |

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

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

Sample Description:

Work Order: 17G1169

Date Received: 7/26/2017

Field Sample #: WS-AOC12W-SO-50-4

Sampled: 7/26/2017 09:09

Sample ID: 17G1169-19

Sample Matrix: Soil

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

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

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

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

Sample Description:

Work Order: 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       |         |

39 Spruce Street \* 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<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 87.0    |    | % Wt  | 1        |           | SM 2540G | 7/31/17          | 8/1/17 8:48           | MRL     |

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

### Sample Extraction Data

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G1169-19 [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 |

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<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B183204 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B183204-BSD1)</b>      |        |                    |           |                | 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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>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<br>Limit | Units     | Spike<br>Level                | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|-------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B183209 - SW-846 3546</b> |        |                    |           |                               |                  |      |                |      |              |       |
| <b>Blank (B183209-BLK1)</b>        |        |                    |           | 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         |      |              |       |
| <b>LCS (B183209-BS1)</b>           |        |                    |           | 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         |      |              |       |
| <b>LCS Dup (B183209-BSD1)</b>      |        |                    |           | 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<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B182729 - SW-846 3050B</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B182729-BLK1)</b>         |        |                    |           | Prepared: 07/27/17 Analyzed: 07/31/17 |                  |      |                |      |              |       |
| Arsenic                             | ND     | 2.5                | mg/Kg wet |                                       |                  |      |                |      |              |       |
| <b>LCS (B182729-BS1)</b>            |        |                    |           | Prepared: 07/27/17 Analyzed: 07/31/17 |                  |      |                |      |              |       |
| Arsenic                             | 57.7   | 5.0                | mg/Kg wet | 57.0                                  |                  | 101  | 77.8-122.1     |      |              |       |
| <b>LCS Dup (B182729-BSD1)</b>       |        |                    |           | 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           |       |
| <b>Duplicate (B182729-DUP1)</b>     |        |                    |           | Prepared: 07/27/17 Analyzed: 07/31/17 |                  |      |                |      |              |       |
| Arsenic                             | ND     | 2.6                | mg/Kg dry |                                       | ND               |      |                | NC   | 35           |       |
| <b>Matrix Spike (B182729-MS1)</b>   |        |                    |           | 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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>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  |

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

# 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  |

---

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.

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| 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 |
| <b><i>SW-846 8270D in Water</i></b>  |                   |
| 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 |

# CERTIFICATIONS

## Certified Analyses included in this Report

| Analyte                      | Certifications    |
|------------------------------|-------------------|
| <b>SW-846 8270D in Water</b> |                   |
| 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 Public Health      | PH-0567       | 09/30/2017 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2018  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2018  |
| RI    | Rhode Island Department of Health            | LAO00112      | 12/30/2017 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2017 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2018 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2018 |
| VT    | Vermont Department of Health Lead Laboratory | LL015036      | 07/30/2018 |
| ME    | State of Maine                               | 2011028       | 06/9/2019  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2017 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2017  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2018 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2018 |





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ANALYTICAL LABORATORY

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

Email: info@contestlabs.com

Company Name: Weston & Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston & Sampson)

Sampled By: Chris Berthiaume / Will Sirotak

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 #:

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Conc Code

Matrix Code

Grab

Composite

Ending Date/Time

Beginning Date/Time

Client Sample ID / Description

Doc # 381 Rev 0 5 8 2015

39 Spruce Street  
East Longmeadow, MA 01028

CHAIN OF CUSTODY RECORD

Page 1 of

# of Containers  
2 Preservation Code  
3 Container Code

ANALYSIS REQUESTED

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

Matrix Codes:

GW = Ground Water

WW = Waste Water

DW = Drinking Water

A = Air

S = Soil/Solid

SL = Sludge

O = Other (please define)

Preservation Codes:

I = Iced

H = HCL

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium Bisulfate

X = Sodium Hydroxide

T = Sodium

Thiosulfate

O = Other (please define)

Container Codes:

A = Amber Glass

G = Glass

P = Plastic

ST = Sterile

V = Vial

S = Summa Canister

T = Tedlar Bag

O = Other (please define)

PWSID #

RELAC 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

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CHAIN OF CUSTODY RECORD

Page 1 of

# of Containers  
2 Preservation Code  
3 Container Code

ANALYSIS REQUESTED

Field Filtered

Lab to Filter

Orthophosphate Samples

Field Filtered

Lab to Filter

Matrix Codes:

GW = Ground Water

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A = Air

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Container Codes:

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PWSID #

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Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston &amp; Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston &amp; Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

|                                                          |                                           |
|----------------------------------------------------------|-------------------------------------------|
| Requested Turnaround Time                                |                                           |
| 7-Day <input checked="" type="checkbox"/>                | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/>                          |                                           |
| Rush Approval Required <input type="checkbox"/>          |                                           |
| 1-Day <input type="checkbox"/>                           | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                           | 4-Day <input type="checkbox"/>            |
| Data Delivery                                            |                                           |
| Format: PDF <input checked="" type="checkbox"/>          | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                          |                                           |
| Enhanced Data Package Required: <input type="checkbox"/> |                                           |
| Email To:                                                | beelerm@wseinc.com                        |
| Fax To #:                                                |                                           |

| Con-Test Work Order # | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|-----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 11                    | WS-AOC12E-SO-13-3              | 7/25/12             | 15:37            |           | X    | S           | U         |
| 12                    | WS-AOC12E-SO-9-1               |                     | 15:50            |           |      |             |           |
| 13                    | WS-AOC12E-SO-9-2               |                     | 15:52            |           |      |             |           |
| 14                    | WS-AOC12E-SO-9-3               |                     | 15:54            |           |      |             |           |
| 15                    | WS-AOC12W-SO-50-1              | 7/26/17             | 9:05             |           |      |             |           |
| 16                    | WS-AOC12W-SO-50-2A             | 7/26/17             | 9:06             |           |      |             |           |
| 17                    | WS-AOC12W-SO-50-2B             |                     | 9:07             |           |      |             |           |
| 18                    | WS-AOC12W-SO-50-3              |                     | 9:08             |           |      |             |           |
| 19                    | WS-AOC12W-SO-50-4              |                     | 9:09             |           |      |             |           |
| 20                    | WS-AOC12W-SO-98-4              |                     | 9:20             |           |      |             |           |

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Comments: WS-AOC12W-SO-97-41 (MS-MSD)

Please hold excess volumes for possible SPLP analyses.

**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)

### Program Information

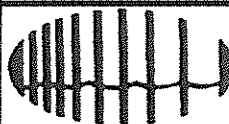
☐ MCP Analytical Certification Form Required  
☒ RCP Analysis Certification Form Required  
☐ MA State DW Form Required  
 PWSID # \_\_\_\_\_

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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 PLF 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 Client T Analysis T Sampler Name T  
pertinent Information? 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  |   | 3oz Amb/Clear |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore        |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:       |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |               |

**Unused Media**

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

Comments:

D:\HPCHEM\1\DATA\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 &lt;= 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 &lt;= 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 &lt;= 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 &lt;= 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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 08/07/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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



July 20, 2017

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

Project Location: English Station  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 17G0507

Enclosed are results of analyses for samples received by the laboratory on July 13, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas  
Project Manager

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

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

REPORT DATE: 7/20/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

---

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 17G0507

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

PROJECT LOCATION: English Station

| FIELD SAMPLE #  | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                                   | SUB LAB |
|-----------------|------------|--------|--------------------|--------------------------------------------------------|---------|
| WS-AOC-14-SED-1 | 17G0507-01 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 8082A<br>SW-846 8270D |         |

---

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

#### CASE NARRATIVE SUMMARY

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

For method 8270, only PAHs were requested and reported.

#### 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

17G0507-01[WS-AOC-14-SED-1]

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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

Project Location: English Station

Sample Description:

Work Order: 17G0507

Date Received: 7/13/2017

Field Sample #: WS-AOC-14-SED-1

Sampled: 7/13/2017 00:00

Sample ID: 17G0507-01

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Acenaphthylene         | ND         | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Anthracene             | 0.63       | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Benzo(a)anthracene     | 2.4        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Benzo(a)pyrene         | 2.0        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Benzo(b)fluoranthene   | 2.9        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Benzo(g,h,i)perylene   | 1.5        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Benzo(k)fluoranthene   | 1.2        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Chrysene               | 2.9        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Fluoranthene           | 5.2        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Fluorene               | ND         | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Indeno(1,2,3-cd)pyrene | 1.4        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| 2-Methylnaphthalene    | 0.77       | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Naphthalene            | 0.82       | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Phenanthrene           | 3.5        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Pyrene                 | 5.0        | 0.43            | mg/Kg dry | 1        |           | SW-846 8270D | 7/17/17       | 7/18/17 13:30      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Nitrobenzene-d5        | 63.9       | 30-130          |           |          |           |              |               | 7/18/17 13:30      |         |
| 2-Fluorobiphenyl       | 67.9       | 30-130          |           |          |           |              |               | 7/18/17 13:30      |         |
| p-Terphenyl-d14        | 71.0       | 30-130          |           |          |           |              |               | 7/18/17 13:30      |         |

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

Project Location: English Station

Sample Description:

Work Order: 17G0507

Date Received: 7/13/2017

Field Sample #: WS-AOC-14-SED-1

Sampled: 7/13/2017 00:00

Sample ID: 17G0507-01

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         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1248 [2]         | 0.60       | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1254 [2]         | 0.74       | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1260 [2]         | 0.39       | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.26            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/18/17 22:38      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 76.2       | 30-150          |           |          |           |              |               | 7/18/17 22:38      |         |
| Decachlorobiphenyl [2]   | 79.5       | 30-150          |           |          |           |              |               | 7/18/17 22:38      |         |
| Tetrachloro-m-xylene [1] | 83.0       | 30-150          |           |          |           |              |               | 7/18/17 22:38      |         |
| Tetrachloro-m-xylene [2] | 78.1       | 30-150          |           |          |           |              |               | 7/18/17 22:38      |         |

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

Project Location: English Station

Sample Description:

Work Order: 17G0507

Date Received: 7/13/2017

Field Sample #: WS-AOC-14-SED-1

Sampled: 7/13/2017 00:00

Sample ID: 17G0507-01

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL   | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|------|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 5700       | 1300 | mg/Kg dry       | 50       |           | CTDEP ETPH | 7/18/17       | 7/20/17 14:48      | SCS     |
| Surrogates  | % Recovery |      | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |      | 50-150          |          | S-01      |            |               | 7/20/17 14:48      |         |

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

Project Location: English Station

Sample Description:

Work Order: 17G0507

Date Received: 7/13/2017

Field Sample #: WS-AOC-14-SED-1

Sampled: 7/13/2017 00:00

Sample ID: 17G0507-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 39.1    |    | % Wt  | 1        |           | SM 2540G | 7/17/17          | 7/18/17 8:14          | MRL     |



---

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     |
|------------------------------|---------|-------------|------------|----------|
| 17G0507-01 [WS-AOC-14-SED-1] | B181937 | 30.0        | 1.00       | 07/18/17 |

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

| Lab Number [Field ID]        | Batch   | Date     |  |  |
|------------------------------|---------|----------|--|--|
| 17G0507-01 [WS-AOC-14-SED-1] | B181768 | 07/17/17 |  |  |

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

| Lab Number [Field ID]        | Batch   | Initial [g] | Final [mL] | Date     |
|------------------------------|---------|-------------|------------|----------|
| 17G0507-01 [WS-AOC-14-SED-1] | B181808 | 10.0        | 10.0       | 07/17/17 |

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

| Lab Number [Field ID]        | Batch   | Initial [g] | Final [mL] | Date     |
|------------------------------|---------|-------------|------------|----------|
| 17G0507-01 [WS-AOC-14-SED-1] | B181790 | 30.0        | 1.00       | 07/17/17 |

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 |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>Batch B181790 - SW-846 3546</b>    |        |                 |           |             |               |      |             |     |           |       |
| <b>Blank (B181790-BLK1)</b>           |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/17/17 Analyzed: 07/18/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Acenaphthylene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Anthracene                            | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)anthracene                    | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)pyrene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(b)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(g,h,i)perylene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(k)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Chrysene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Dibenz(a,h)anthracene                 | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluoranthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluorene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Indeno(1,2,3-cd)pyrene                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| 2-Methylnaphthalene                   | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Naphthalene                           | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Phenanthrene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Pyrene                                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.38   |                 | mg/Kg wet | 3.33        |               | 71.5 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.38   |                 | mg/Kg wet | 3.33        |               | 71.5 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 3.00   |                 | mg/Kg wet | 3.33        |               | 89.9 | 30-130      |     |           |       |
| <b>LCS (B181790-BS1)</b>              |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/17/17 Analyzed: 07/18/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | 1.15   | 0.17            | mg/Kg wet | 1.67        |               | 69.1 | 40-140      |     |           |       |
| Acenaphthylene                        | 1.10   | 0.17            | mg/Kg wet | 1.67        |               | 65.9 | 40-140      |     |           |       |
| Anthracene                            | 1.22   | 0.17            | mg/Kg wet | 1.67        |               | 73.3 | 40-140      |     |           |       |
| Benzo(a)anthracene                    | 1.23   | 0.17            | mg/Kg wet | 1.67        |               | 74.0 | 40-140      |     |           |       |
| Benzo(a)pyrene                        | 1.21   | 0.17            | mg/Kg wet | 1.67        |               | 72.9 | 40-140      |     |           |       |
| Benzo(b)fluoranthene                  | 1.12   | 0.17            | mg/Kg wet | 1.67        |               | 67.3 | 40-140      |     |           |       |
| Benzo(g,h,i)perylene                  | 1.44   | 0.17            | mg/Kg wet | 1.67        |               | 86.3 | 40-140      |     |           |       |
| Benzo(k)fluoranthene                  | 1.14   | 0.17            | mg/Kg wet | 1.67        |               | 68.6 | 40-140      |     |           |       |
| Chrysene                              | 1.20   | 0.17            | mg/Kg wet | 1.67        |               | 72.2 | 40-140      |     |           |       |
| Dibenz(a,h)anthracene                 | 1.31   | 0.17            | mg/Kg wet | 1.67        |               | 78.8 | 40-140      |     |           |       |
| Fluoranthene                          | 1.20   | 0.17            | mg/Kg wet | 1.67        |               | 72.0 | 40-140      |     |           |       |
| Fluorene                              | 1.15   | 0.17            | mg/Kg wet | 1.67        |               | 69.1 | 40-140      |     |           |       |
| Indeno(1,2,3-cd)pyrene                | 1.36   | 0.17            | mg/Kg wet | 1.67        |               | 81.8 | 40-140      |     |           |       |
| 2-Methylnaphthalene                   | 1.12   | 0.17            | mg/Kg wet | 1.67        |               | 67.1 | 40-140      |     |           |       |
| Naphthalene                           | 1.08   | 0.17            | mg/Kg wet | 1.67        |               | 64.6 | 40-140      |     |           |       |
| Phenanthrene                          | 1.23   | 0.17            | mg/Kg wet | 1.67        |               | 73.5 | 40-140      |     |           |       |
| Pyrene                                | 1.25   | 0.17            | mg/Kg wet | 1.67        |               | 75.1 | 40-140      |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.53   |                 | mg/Kg wet | 3.33        |               | 75.8 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.57   |                 | mg/Kg wet | 3.33        |               | 77.2 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.82   |                 | mg/Kg wet | 3.33        |               | 84.5 | 30-130      |     |           |       |

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

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B181790 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B181790-BSD1)</b>      |        |                    |           |                | Prepared: 07/17/17 Analyzed: 07/18/17 |      |                |      |              |       |
| Acenaphthene                       | 1.23   | 0.17               | mg/Kg wet | 1.67           |                                       | 74.0 | 40-140         | 6.85 | 30           |       |
| Acenaphthylene                     | 1.18   | 0.17               | mg/Kg wet | 1.67           |                                       | 70.9 | 40-140         | 7.31 | 30           |       |
| Anthracene                         | 1.32   | 0.17               | mg/Kg wet | 1.67           |                                       | 79.1 | 40-140         | 7.64 | 30           |       |
| Benzo(a)anthracene                 | 1.32   | 0.17               | mg/Kg wet | 1.67           |                                       | 79.5 | 40-140         | 7.09 | 30           |       |
| Benzo(a)pyrene                     | 1.35   | 0.17               | mg/Kg wet | 1.67           |                                       | 80.8 | 40-140         | 10.3 | 30           |       |
| Benzo(b)fluoranthene               | 1.23   | 0.17               | mg/Kg wet | 1.67           |                                       | 74.0 | 40-140         | 9.54 | 30           |       |
| Benzo(g,h,i)perylene               | 1.57   | 0.17               | mg/Kg wet | 1.67           |                                       | 94.0 | 40-140         | 8.54 | 30           |       |
| Benzo(k)fluoranthene               | 1.25   | 0.17               | mg/Kg wet | 1.67           |                                       | 75.2 | 40-140         | 9.21 | 30           |       |
| Chrysene                           | 1.31   | 0.17               | mg/Kg wet | 1.67           |                                       | 78.8 | 40-140         | 8.71 | 30           |       |
| Dibenz(a,h)anthracene              | 1.42   | 0.17               | mg/Kg wet | 1.67           |                                       | 85.4 | 40-140         | 8.04 | 30           |       |
| Fluoranthene                       | 1.27   | 0.17               | mg/Kg wet | 1.67           |                                       | 76.0 | 40-140         | 5.35 | 30           |       |
| Fluorene                           | 1.21   | 0.17               | mg/Kg wet | 1.67           |                                       | 72.5 | 40-140         | 4.77 | 30           |       |
| Indeno(1,2,3-cd)pyrene             | 1.45   | 0.17               | mg/Kg wet | 1.67           |                                       | 87.3 | 40-140         | 6.53 | 30           |       |
| 2-Methylnaphthalene                | 1.23   | 0.17               | mg/Kg wet | 1.67           |                                       | 73.5 | 40-140         | 9.16 | 30           |       |
| Naphthalene                        | 1.21   | 0.17               | mg/Kg wet | 1.67           |                                       | 72.3 | 40-140         | 11.3 | 30           |       |
| Phenanthrene                       | 1.33   | 0.17               | mg/Kg wet | 1.67           |                                       | 79.7 | 40-140         | 8.01 | 30           |       |
| Pyrene                             | 1.36   | 0.17               | mg/Kg wet | 1.67           |                                       | 81.8 | 40-140         | 8.47 | 30           |       |
| Surrogate: Nitrobenzene-d5         | 2.77   |                    | mg/Kg wet | 3.33           |                                       | 83.1 | 30-130         |      |              |       |
| Surrogate: 2-Fluorobiphenyl        | 2.70   |                    | mg/Kg wet | 3.33           |                                       | 80.9 | 30-130         |      |              |       |
| Surrogate: p-Terphenyl-d14         | 2.95   |                    | mg/Kg wet | 3.33           |                                       | 88.4 | 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 B181808 - SW-846 3540C**
**Blank (B181808-BLK1)**

Prepared: 07/17/17 Analyzed: 07/18/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1016 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.153 |       | mg/Kg wet | 0.200 |  | 76.5 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.144 |       | mg/Kg wet | 0.200 |  | 72.1 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.164 |       | mg/Kg wet | 0.200 |  | 81.9 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.160 |       | mg/Kg wet | 0.200 |  | 80.2 | 30-150 |  |  |  |

**LCS (B181808-BS1)**

Prepared: 07/17/17 Analyzed: 07/18/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.18  | 0.020 | mg/Kg wet | 0.200 |  | 87.9 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.020 | mg/Kg wet | 0.200 |  | 92.7 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 74.2 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.020 | mg/Kg wet | 0.200 |  | 70.8 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.163 |       | mg/Kg wet | 0.200 |  | 81.5 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.154 |       | mg/Kg wet | 0.200 |  | 77.1 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.169 |       | mg/Kg wet | 0.200 |  | 84.6 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.163 |       | mg/Kg wet | 0.200 |  | 81.6 | 30-150 |  |  |  |

**LCS Dup (B181808-BSD1)**

Prepared: 07/17/17 Analyzed: 07/18/17

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 83.1 | 40-140 | 5.59 | 30 |  |
| Aroclor-1016 [2C]                    | 0.18  | 0.020 | mg/Kg wet | 0.200 |  | 89.7 | 40-140 | 3.22 | 30 |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 72.9 | 40-140 | 1.72 | 30 |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.020 | mg/Kg wet | 0.200 |  | 69.5 | 40-140 | 1.89 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.158 |       | mg/Kg wet | 0.200 |  | 79.0 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.161 |       | mg/Kg wet | 0.200 |  | 80.5 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.162 |       | mg/Kg wet | 0.200 |  | 81.0 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.157 |       | mg/Kg wet | 0.200 |  | 78.6 | 30-150 |      |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B181937 - SW-846 3546**
**Blank (B181937-BLK1)**

Prepared: 07/18/17 Analyzed: 07/19/17

|                        |      |    |           |      |  |      |        |  |  |  |
|------------------------|------|----|-----------|------|--|------|--------|--|--|--|
| CT ETPH                | ND   | 10 | mg/Kg wet |      |  |      |        |  |  |  |
| Surrogate: o-Terphenyl | 2.10 |    | mg/Kg wet | 3.33 |  | 63.0 | 50-150 |  |  |  |

**LCS (B181937-BS1)**

Prepared: 07/18/17 Analyzed: 07/19/17

|                        |      |    |           |      |  |      |        |  |  |  |
|------------------------|------|----|-----------|------|--|------|--------|--|--|--|
| CT ETPH                | 23.2 | 10 | mg/Kg wet | 33.3 |  | 69.6 | 60-120 |  |  |  |
| Surrogate: o-Terphenyl | 2.28 |    | mg/Kg wet | 3.33 |  | 68.5 | 50-150 |  |  |  |

**LCS Dup (B181937-BSD1)**

Prepared: 07/18/17 Analyzed: 07/19/17

|                        |      |    |           |      |  |      |        |      |    |  |
|------------------------|------|----|-----------|------|--|------|--------|------|----|--|
| CT ETPH                | 22.0 | 10 | mg/Kg wet | 33.3 |  | 66.0 | 60-120 | 5.21 | 30 |  |
| Surrogate: o-Terphenyl | 2.20 |    | mg/Kg wet | 3.33 |  | 66.1 | 50-150 |      |    |  |

# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

AOC-14 SED-1

Lab Sample ID: 17G0507-01 Date(s) Analyzed: 07/18/2017 07/18/2017

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1248 | 1   | 0.000 | -0.030    | 0.030 | 0.54          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.60          | 10.5 |
| Aroclor-1254 | 1   | 0.000 | -0.030    | 0.030 | 0.63          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.74          | 16.1 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.35          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.39          | 10.8 |

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**FLAG/QUALIFIER SUMMARY**

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

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                            | Certifications    |
|------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>   |                   |
| CT ETPH                            | CT                |
| <b><i>SW-846 8082A in Soil</i></b> |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b> |                   |
| Acenaphthene                       | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                     | CT,NY,NH,ME,NC,VA |
| Anthracene                         | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                 | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                     | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene               | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene               | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene               | CT,NY,NH,ME,NC,VA |
| Chrysene                           | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene              | CT,NY,NH,ME,NC,VA |
| Fluoranthene                       | CT,NY,NH,ME,NC,VA |
| Fluorene                           | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene             | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                | CT,NY,NH,ME,NC,VA |
| Naphthalene                        | CT,NY,NH,ME,NC,VA |
| Phenanthrene                       | CT,NY,NH,ME,NC,VA |
| Pyrene                             | CT,NY,NH,ME,NC,VA |



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

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



39 Spruce St.  
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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 AF Date 7/13/17 Time 1925

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 - 2.4  
By Blank #        Actual Temp -       

Was Custody Seal Intact? N/A Were Samples Tamed with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

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

Are Sample labels filled out and legible? T

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

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

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

Is there enough Volume? T

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

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

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

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

| Vials        | # | Containers:   | # | #               | # | #             |
|--------------|---|---------------|---|-----------------|---|---------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.    |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear |
| 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\A072017\A0720006.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/20/17  
 Data File Name A0720006.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | ">%D +/- 20 |
|-------------|----------|-----------------|------------------|-------------|
| c - 9       | 1.08     | 474876          | 527912           | -10         |
| c - 10      | 1.43     | 480762          | 527912           | -9          |
| c - 12      | 2.16     | 504292          | 527912           | -4          |
| c - 14      | 2.84     | 522097          | 527912           | -1          |
| c - 16      | 3.44     | 541219          | 527912           | 3           |
| c - 18      | 4.02     | 539836          | 527912           | 2           |
| o-Terphenyl | 4.30     | 625240          | 527912           |             |
| c - 20      | 4.64     | 551613          | 527912           | 4           |
| c - 22      | 5.16     | 561048          | 527912           | 6           |
| c - 24      | 5.60     | 526083          | 527912           | 0           |
| c - 26      | 6.00     | 555923          | 527912           | 5           |
| c - 28      | 6.36     | 547974          | 527912           | 4           |
| c - 30      | 6.70     | 542847          | 527912           | 3           |
| c - 32      | 7.01     | 526107          | 527912           | 0           |
| c - 34      | 7.30     | 523798          | 527912           | -1          |
| c - 36      | 7.59     | 520202          | 527912           | -1          |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0320-01@40X  
 17G0666-01  
 17G0666-02  
 17G0666-04  
 17G0666-05@10X  
 17G0666-03@100X  
 17G0519-05@10X  
 17G0519-01@10X  
 17G0519-02  
 17G0507-01@50X

D:\HPCHEM\1\DATA\A072017.SEC\A0720007.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/20/17  
Data File Name A0720007.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 542887          | 558590           | -3         |
| c - 10      | 1.49     | 548263          | 558590           | -2         |
| c - 12      | 2.22     | 572116          | 558590           | 2          |
| c - 14      | 2.88     | 585052          | 558590           | 5          |
| c - 16      | 3.48     | 592579          | 558590           | 6          |
| c - 18      | 4.06     | 574741          | 558590           | 3          |
| o-Terphenyl | 4.35     | 650382          | 558590           |            |
| c - 20      | 4.67     | 575493          | 558590           | 3          |
| c - 22      | 5.18     | 576350          | 558590           | 3          |
| c - 24      | 5.62     | 535231          | 558590           | -4         |
| c - 26      | 6.01     | 561463          | 558590           | 1          |
| c - 28      | 6.37     | 552550          | 558590           | -1         |
| c - 30      | 6.70     | 548440          | 558590           | -2         |
| c - 32      | 7.01     | 534893          | 558590           | -4         |
| c - 34      | 7.30     | 538565          | 558590           | -4         |
| c - 36      | 7.58     | 540221          | 558590           | -3         |

\* One compound allowed %D &lt;= 50%

Samples

17G0521-09



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

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

**Client:** Weston & Sampson

**Project Location:** English Station

**Project Number:** 17G0507

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

17G0507-01

07/13/2017

**List RCP Methods Used:**

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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 07/20/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 26, 2017

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

Project Location: New Haven, CT  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 17G0626

Enclosed are results of analyses for samples received by the laboratory on July 17, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas  
Project Manager

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

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

REPORT DATE: 7/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0626

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

PROJECT LOCATION: New Haven, CT

| FIELD SAMPLE #    | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                     | SUB LAB |
|-------------------|------------|--------|--------------------|------------------------------------------|---------|
| WS-AOC12W-SO-1-1  | 17G0626-01 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-1-2  | 17G0626-02 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-1-3  | 17G0626-03 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-4-1  | 17G0626-04 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-4-2  | 17G0626-05 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-4-3  | 17G0626-06 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-3-1A | 17G0626-07 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-3-1B | 17G0626-08 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D |         |
| WS-AOC12W-SO-3-2  | 17G0626-09 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-3-3  | 17G0626-10 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-6-1  | 17G0626-11 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-6-2  | 17G0626-12 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-6-3  | 17G0626-13 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-8-1A | 17G0626-14 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-8-1B | 17G0626-15 | Soil   |                    | SM 2540G<br>SW-846 8270D                 |         |
| WS-AOC12W-SO-8-2  | 17G0626-16 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-8-3  | 17G0626-17 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-14-1 | 17G0626-18 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-14-2 | 17G0626-19 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-14-3 | 17G0626-20 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |

## CASE NARRATIVE SUMMARY

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

For method 6010, only As was requested and reported.

SW-846 8082A

## Qualifications:

## R-05

Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.

## Analyte &amp; Samples(s) Qualified:

## Aroclor-1016

17G0626-01[WS-AOC12W-SO-1-1], 17G0626-02[WS-AOC12W-SO-1-2], 17G0626-03[WS-AOC12W-SO-1-3], 17G0626-04[WS-AOC12W-SO-4-1], 17G0626-05[WS-AOC12W-SO-4-2], 17G0626-06[WS-AOC12W-SO-4-3], 17G0626-07[WS-AOC12W-SO-3-1A], 17G0626-09[WS-AOC12W-SO-3-2], 17G0626-10[WS-AOC12W-SO-3-3], 17G0626-11[WS-AOC12W-SO-6-1], 17G0626-12[WS-AOC12W-SO-6-2], 17G0626-13[WS-AOC12W-SO-6-3], 17G0626-14[WS-AOC12W-SO-8-1A], 17G0626-16[WS-AOC12W-SO-8-2], 17G0626-17[WS-AOC12W-SO-8-3], 17G0626-18[WS-AOC12W-SO-14-1], 17G0626-19[WS-AOC12W-SO-14-2], 17G0626-20[WS-AOC12W-SO-14-3], B181836-BLK1, B181836-BS1, B181836-BSD1, B181836-MS1, B181836-MSD1

## Aroclor-1016 [2C]

17G0626-01[WS-AOC12W-SO-1-1], 17G0626-02[WS-AOC12W-SO-1-2], 17G0626-03[WS-AOC12W-SO-1-3], 17G0626-04[WS-AOC12W-SO-4-1], 17G0626-05[WS-AOC12W-SO-4-2], 17G0626-06[WS-AOC12W-SO-4-3], 17G0626-07[WS-AOC12W-SO-3-1A], 17G0626-09[WS-AOC12W-SO-3-2], 17G0626-10[WS-AOC12W-SO-3-3], 17G0626-11[WS-AOC12W-SO-6-1], 17G0626-12[WS-AOC12W-SO-6-2], 17G0626-13[WS-AOC12W-SO-6-3], 17G0626-14[WS-AOC12W-SO-8-1A], 17G0626-16[WS-AOC12W-SO-8-2], 17G0626-17[WS-AOC12W-SO-8-3], 17G0626-18[WS-AOC12W-SO-14-1], 17G0626-19[WS-AOC12W-SO-14-2], 17G0626-20[WS-AOC12W-SO-14-3], B181836-BLK1, B181836-BS1, B181836-BSD1, B181836-MS1, B181836-MSD1

## Aroclor-1260

17G0626-01[WS-AOC12W-SO-1-1], 17G0626-02[WS-AOC12W-SO-1-2], 17G0626-03[WS-AOC12W-SO-1-3], 17G0626-04[WS-AOC12W-SO-4-1], 17G0626-05[WS-AOC12W-SO-4-2], 17G0626-06[WS-AOC12W-SO-4-3], 17G0626-07[WS-AOC12W-SO-3-1A], 17G0626-09[WS-AOC12W-SO-3-2], 17G0626-10[WS-AOC12W-SO-3-3], 17G0626-11[WS-AOC12W-SO-6-1], 17G0626-12[WS-AOC12W-SO-6-2], 17G0626-13[WS-AOC12W-SO-6-3], 17G0626-14[WS-AOC12W-SO-8-1A], 17G0626-16[WS-AOC12W-SO-8-2], 17G0626-17[WS-AOC12W-SO-8-3], 17G0626-18[WS-AOC12W-SO-14-1], 17G0626-19[WS-AOC12W-SO-14-2], 17G0626-20[WS-AOC12W-SO-14-3], B181836-BLK1, B181836-BS1, B181836-BSD1, B181836-MS1, B181836-MSD1

## Aroclor-1260 [2C]

17G0626-01[WS-AOC12W-SO-1-1], 17G0626-02[WS-AOC12W-SO-1-2], 17G0626-03[WS-AOC12W-SO-1-3], 17G0626-04[WS-AOC12W-SO-4-1], 17G0626-05[WS-AOC12W-SO-4-2], 17G0626-06[WS-AOC12W-SO-4-3], 17G0626-07[WS-AOC12W-SO-3-1A], 17G0626-09[WS-AOC12W-SO-3-2], 17G0626-10[WS-AOC12W-SO-3-3], 17G0626-11[WS-AOC12W-SO-6-1], 17G0626-12[WS-AOC12W-SO-6-2], 17G0626-13[WS-AOC12W-SO-6-3], 17G0626-14[WS-AOC12W-SO-8-1A], 17G0626-16[WS-AOC12W-SO-8-2], 17G0626-17[WS-AOC12W-SO-8-3], 17G0626-18[WS-AOC12W-SO-14-1], 17G0626-19[WS-AOC12W-SO-14-2], 17G0626-20[WS-AOC12W-SO-14-3], B181836-BLK1, B181836-BS1, B181836-BSD1, B181836-MS1, B181836-MSD1

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

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

Sampled: 7/17/2017 10:40

Sample ID: 17G0626-01

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:40      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 76.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 85.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 70.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 71.3       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

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

Sampled: 7/17/2017 10:40

Sample ID: 17G0626-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-1-2

Sampled: 7/17/2017 10:42

Sample ID: 17G0626-02

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 15:57      | KAL     |
| Surrogates               | % Recovery | Recovery Limits |           |          | Flag/Qual |              |               |                    |         |
| Decachlorobiphenyl [1]   | 77.9       | 30-150          |           |          |           |              |               | 7/20/17 15:57      |         |
| Decachlorobiphenyl [2]   | 88.2       | 30-150          |           |          |           |              |               | 7/20/17 15:57      |         |
| Tetrachloro-m-xylene [1] | 87.8       | 30-150          |           |          |           |              |               | 7/20/17 15:57      |         |
| Tetrachloro-m-xylene [2] | 88.3       | 30-150          |           |          |           |              |               | 7/20/17 15:57      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-1-2

Sampled: 7/17/2017 10:42

Sample ID: 17G0626-02

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.7    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-1-3

Sampled: 7/17/2017 10:44

Sample ID: 17G0626-03

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         | 0.17            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.17            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:15      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.6       | 30-150          |           |          |           |              |               | 7/20/17 16:15      |         |
| Decachlorobiphenyl [2]   | 98.5       | 30-150          |           |          |           |              |               | 7/20/17 16:15      |         |
| Tetrachloro-m-xylene [1] | 81.2       | 30-150          |           |          |           |              |               | 7/20/17 16:15      |         |
| Tetrachloro-m-xylene [2] | 72.3       | 30-150          |           |          |           |              |               | 7/20/17 16:15      |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-1-3

Sampled: 7/17/2017 10:44

Sample ID: 17G0626-03

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 | 58.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17       | 7/21/17 7:45       | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-1

Sampled: 7/17/2017 11:27

Sample ID: 17G0626-04

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:33      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 87.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 99.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 96.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 97.5       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-1

Sampled: 7/17/2017 11:27

Sample ID: 17G0626-04

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.1    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-2

Sampled: 7/17/2017 11:29

Sample ID: 17G0626-05

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:50      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 88.5       | 30-150          |           |          |           |              |               | 7/20/17 16:50      |         |
| Decachlorobiphenyl [2]   | 98.0       | 30-150          |           |          |           |              |               | 7/20/17 16:50      |         |
| Tetrachloro-m-xylene [1] | 96.1       | 30-150          |           |          |           |              |               | 7/20/17 16:50      |         |
| Tetrachloro-m-xylene [2] | 103        | 30-150          |           |          |           |              |               | 7/20/17 16:50      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-2

Sampled: 7/17/2017 11:29

Sample ID: 17G0626-05

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 80.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-3

Sampled: 7/17/2017 11:31

Sample ID: 17G0626-06

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.17            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.17            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.17            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:08      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 91.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 103        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 97.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 106        | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-4-3

Sampled: 7/17/2017 11:31

Sample ID: 17G0626-06

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 57.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-1A

Sampled: 7/17/2017 11:30

Sample ID: 17G0626-07

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:25      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 77.6       | 30-150          |           |          |           |              |               | 7/20/17 17:25      |         |
| Decachlorobiphenyl [2]   | 86.6       | 30-150          |           |          |           |              |               | 7/20/17 17:25      |         |
| Tetrachloro-m-xylene [1] | 87.2       | 30-150          |           |          |           |              |               | 7/20/17 17:25      |         |
| Tetrachloro-m-xylene [2] | 93.8       | 30-150          |           |          |           |              |               | 7/20/17 17:25      |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-1A

Sampled: 7/17/2017 11:30

Sample ID: 17G0626-07

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 92.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-1B

Sampled: 7/17/2017 11:31

Sample ID: 17G0626-08

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 550        | 60 | mg/Kg dry       | 5        |           | CTDEP ETPH | 7/21/17       | 7/25/17 19:22      | SCS     |
| Surrogates  | % Recovery |    | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 77.2       |    | 50-150          |          |           |            | 7/25/17 19:22 |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-1B

Sampled: 7/17/2017 11:31

Sample ID: 17G0626-08

Sample Matrix: Soil

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**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 120     | 3.0 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 4:55          | QNW     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-1B

Sampled: 7/17/2017 11:31

Sample ID: 17G0626-08

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.2    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-2

Sampled: 7/17/2017 11:32

Sample ID: 17G0626-09

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 81.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 93.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 84.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 88.8       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-3-2

Sampled: 7/17/2017 11:32

Sample ID: 17G0626-09

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 80.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

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

Sampled: 7/17/2017 11:33

Sample ID: 17G0626-10

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         | 0.14            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.14            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:48      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 83.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 97.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 93.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 93.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

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

Sampled: 7/17/2017 11:33

Sample ID: 17G0626-10

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 70.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-1

Sampled: 7/17/2017 11:50

Sample ID: 17G0626-11

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:06      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 80.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 92.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 96.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 103        | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-1

Sampled: 7/17/2017 11:50

Sample ID: 17G0626-11

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 92.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-2

Sampled: 7/17/2017 11:51

Sample ID: 17G0626-12

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:23      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.7       | 30-150          |           |          |           |              |               | 7/20/17 19:23      |         |
| Decachlorobiphenyl [2]   | 93.4       | 30-150          |           |          |           |              |               | 7/20/17 19:23      |         |
| Tetrachloro-m-xylene [1] | 89.1       | 30-150          |           |          |           |              |               | 7/20/17 19:23      |         |
| Tetrachloro-m-xylene [2] | 89.7       | 30-150          |           |          |           |              |               | 7/20/17 19:23      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-2

Sampled: 7/17/2017 11:51

Sample ID: 17G0626-12

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.4    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-3

Sampled: 7/17/2017 11:52

Sample ID: 17G0626-13

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         | 0.16            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.16            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:41      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 81.0       | 30-150          |           |          |           |              |               | 7/20/17 19:41      |         |
| Decachlorobiphenyl [2]   | 89.0       | 30-150          |           |          |           |              |               | 7/20/17 19:41      |         |
| Tetrachloro-m-xylene [1] | 94.0       | 30-150          |           |          |           |              |               | 7/20/17 19:41      |         |
| Tetrachloro-m-xylene [2] | 100        | 30-150          |           |          |           |              |               | 7/20/17 19:41      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-6-3

Sampled: 7/17/2017 11:52

Sample ID: 17G0626-13

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 61.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-1A

Sampled: 7/17/2017 11:45

Sample ID: 17G0626-14

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:59      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 76.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 89.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 88.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 86.9       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-1A

Sampled: 7/17/2017 11:45

Sample ID: 17G0626-14

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.8    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-1B

Sampled: 7/17/2017 11:47

Sample ID: 17G0626-15

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Acenaphthylene         | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Anthracene             | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Benzo(a)anthracene     | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Benzo(a)pyrene         | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Benzo(b)fluoranthene   | 0.44       | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Benzo(g,h,i)perylene   | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Chrysene               | 1.1        | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Fluoranthene           | 0.49       | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Fluorene               | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Indeno(1,2,3-cd)pyrene | ND         | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| 2-Methylnaphthalene    | 0.28       | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Naphthalene            | 0.32       | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Phenanthrene           | 1.0        | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Pyrene                 | 0.35       | 0.21            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/22/17 15:27      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Nitrobenzene-d5        | 57.1       | 30-130          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 58.0       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 63.7       | 30-130          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-1B

Sampled: 7/17/2017 11:47

Sample ID: 17G0626-15

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.1    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-2

Sampled: 7/17/2017 11:49

Sample ID: 17G0626-16

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:16      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 74.9       | 30-150          |           |          |           |              |               | 7/20/17 20:16      |         |
| Decachlorobiphenyl [2]   | 88.6       | 30-150          |           |          |           |              |               | 7/20/17 20:16      |         |
| Tetrachloro-m-xylene [1] | 89.5       | 30-150          |           |          |           |              |               | 7/20/17 20:16      |         |
| Tetrachloro-m-xylene [2] | 89.7       | 30-150          |           |          |           |              |               | 7/20/17 20:16      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-2

Sampled: 7/17/2017 11:49

Sample ID: 17G0626-16

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 80.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-3

Sampled: 7/17/2017 11:51

Sample ID: 17G0626-17

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         | 0.15            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.15            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:34      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 79.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 83.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 84.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.4       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-8-3

Sampled: 7/17/2017 11:51

Sample ID: 17G0626-17

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 66.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-1

Sampled: 7/17/2017 11:55

Sample ID: 17G0626-18

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:51      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 78.6       | 30-150          |           |          |           |              |               | 7/20/17 20:51      |         |
| Decachlorobiphenyl [2]   | 89.1       | 30-150          |           |          |           |              |               | 7/20/17 20:51      |         |
| Tetrachloro-m-xylene [1] | 95.9       | 30-150          |           |          |           |              |               | 7/20/17 20:51      |         |
| Tetrachloro-m-xylene [2] | 103        | 30-150          |           |          |           |              |               | 7/20/17 20:51      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-1

Sampled: 7/17/2017 11:55

Sample ID: 17G0626-18

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-2

Sampled: 7/17/2017 11:58

Sample ID: 17G0626-19

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        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:09      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 60.4       | 30-150          |           |          |           |              |               | 7/20/17 21:09      |         |
| Decachlorobiphenyl [2]   | 73.2       | 30-150          |           |          |           |              |               | 7/20/17 21:09      |         |
| Tetrachloro-m-xylene [1] | 73.2       | 30-150          |           |          |           |              |               | 7/20/17 21:09      |         |
| Tetrachloro-m-xylene [2] | 69.4       | 30-150          |           |          |           |              |               | 7/20/17 21:09      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-2

Sampled: 7/17/2017 11:58

Sample ID: 17G0626-19

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-3

Sampled: 7/17/2017 11:59

Sample ID: 17G0626-20

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.14            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1221 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1232 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1242 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1248 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1254 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1260 [1]         | ND         | 0.14            | mg/Kg dry | 5        | R-05      | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1262 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Aroclor-1268 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 21:26      | KAL     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.7       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 84.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 93.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 99.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0626

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-14-3

Sampled: 7/17/2017 11:59

Sample ID: 17G0626-20

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 71.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0626-08 [WS-AOC12W-SO-3-1B] | B182266 | 30.0        | 1.00       | 07/21/17 |

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

| Lab Number [Field ID]          | Batch   | Date     |
|--------------------------------|---------|----------|
| 17G0626-01 [WS-AOC12W-SO-1-1]  | B182096 | 07/20/17 |
| 17G0626-02 [WS-AOC12W-SO-1-2]  | B182096 | 07/20/17 |
| 17G0626-03 [WS-AOC12W-SO-1-3]  | B182096 | 07/20/17 |
| 17G0626-04 [WS-AOC12W-SO-4-1]  | B182096 | 07/20/17 |
| 17G0626-05 [WS-AOC12W-SO-4-2]  | B182096 | 07/20/17 |
| 17G0626-06 [WS-AOC12W-SO-4-3]  | B182096 | 07/20/17 |
| 17G0626-07 [WS-AOC12W-SO-3-1A] | B182096 | 07/20/17 |
| 17G0626-08 [WS-AOC12W-SO-3-1B] | B182096 | 07/20/17 |
| 17G0626-09 [WS-AOC12W-SO-3-2]  | B182096 | 07/20/17 |
| 17G0626-10 [WS-AOC12W-SO-3-3]  | B182096 | 07/20/17 |
| 17G0626-11 [WS-AOC12W-SO-6-1]  | B182096 | 07/20/17 |
| 17G0626-12 [WS-AOC12W-SO-6-2]  | B182096 | 07/20/17 |
| 17G0626-13 [WS-AOC12W-SO-6-3]  | B182096 | 07/20/17 |
| 17G0626-14 [WS-AOC12W-SO-8-1A] | B182096 | 07/20/17 |
| 17G0626-15 [WS-AOC12W-SO-8-1B] | B182096 | 07/20/17 |
| 17G0626-16 [WS-AOC12W-SO-8-2]  | B182096 | 07/20/17 |
| 17G0626-17 [WS-AOC12W-SO-8-3]  | B182096 | 07/20/17 |
| 17G0626-18 [WS-AOC12W-SO-14-1] | B182096 | 07/20/17 |
| 17G0626-19 [WS-AOC12W-SO-14-2] | B182096 | 07/20/17 |
| 17G0626-20 [WS-AOC12W-SO-14-3] | B182096 | 07/20/17 |

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0626-08 [WS-AOC12W-SO-3-1B] | B182155 | 1.01        | 50.0       | 07/20/17 |

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0626-01 [WS-AOC12W-SO-1-1]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-02 [WS-AOC12W-SO-1-2]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-03 [WS-AOC12W-SO-1-3]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-04 [WS-AOC12W-SO-4-1]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-05 [WS-AOC12W-SO-4-2]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-06 [WS-AOC12W-SO-4-3]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-07 [WS-AOC12W-SO-3-1A] | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-09 [WS-AOC12W-SO-3-2]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-10 [WS-AOC12W-SO-3-3]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-11 [WS-AOC12W-SO-6-1]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-12 [WS-AOC12W-SO-6-2]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-13 [WS-AOC12W-SO-6-3]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-14 [WS-AOC12W-SO-8-1A] | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-16 [WS-AOC12W-SO-8-2]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-17 [WS-AOC12W-SO-8-3]  | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-18 [WS-AOC12W-SO-14-1] | B181836 | 10.0        | 10.0       | 07/17/17 |
| 17G0626-19 [WS-AOC12W-SO-14-2] | B181836 | 10.0        | 10.0       | 07/17/17 |

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

**Sample Extraction Data**

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0626-20 [WS-AOC12W-SO-14-3] | B181836 | 10.0        | 10.0       | 07/17/17 |

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0626-15 [WS-AOC12W-SO-8-1B] | B182243 | 30.0        | 1.00       | 07/21/17 |

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<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182243 - SW-846 3546**
**Blank (B182243-BLK1)**

Prepared: 07/21/17 Analyzed: 07/22/17

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| 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  | 2.43 |      | mg/Kg wet | 3.33 |  | 72.9 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.47 |      | mg/Kg wet | 3.33 |  | 74.2 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.68 |      | mg/Kg wet | 3.33 |  | 80.5 | 30-130 |  |  |  |

**LCS (B182243-BS1)**

Prepared: 07/21/17 Analyzed: 07/22/17

|                             |       |      |           |      |  |      |        |  |  |  |
|-----------------------------|-------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | 1.20  | 0.17 | mg/Kg wet | 1.67 |  | 71.8 | 40-140 |  |  |  |
| Acenaphthylene              | 1.15  | 0.17 | mg/Kg wet | 1.67 |  | 68.9 | 40-140 |  |  |  |
| Anthracene                  | 1.21  | 0.17 | mg/Kg wet | 1.67 |  | 72.4 | 40-140 |  |  |  |
| Benzo(a)anthracene          | 1.07  | 0.17 | mg/Kg wet | 1.67 |  | 63.9 | 40-140 |  |  |  |
| Benzo(a)pyrene              | 1.21  | 0.17 | mg/Kg wet | 1.67 |  | 72.7 | 40-140 |  |  |  |
| Benzo(b)fluoranthene        | 1.14  | 0.17 | mg/Kg wet | 1.67 |  | 68.3 | 40-140 |  |  |  |
| Benzo(g,h,i)perylene        | 1.12  | 0.17 | mg/Kg wet | 1.67 |  | 67.4 | 40-140 |  |  |  |
| Benzo(k)fluoranthene        | 1.20  | 0.17 | mg/Kg wet | 1.67 |  | 72.2 | 40-140 |  |  |  |
| Chrysene                    | 0.992 | 0.17 | mg/Kg wet | 1.67 |  | 59.5 | 40-140 |  |  |  |
| Dibenz(a,h)anthracene       | 1.12  | 0.17 | mg/Kg wet | 1.67 |  | 67.4 | 40-140 |  |  |  |
| Fluoranthene                | 1.17  | 0.17 | mg/Kg wet | 1.67 |  | 69.9 | 40-140 |  |  |  |
| Fluorene                    | 1.18  | 0.17 | mg/Kg wet | 1.67 |  | 70.7 | 40-140 |  |  |  |
| Indeno(1,2,3-cd)pyrene      | 1.12  | 0.17 | mg/Kg wet | 1.67 |  | 67.1 | 40-140 |  |  |  |
| 2-Methylnaphthalene         | 1.21  | 0.17 | mg/Kg wet | 1.67 |  | 72.8 | 40-140 |  |  |  |
| Naphthalene                 | 1.11  | 0.17 | mg/Kg wet | 1.67 |  | 66.5 | 40-140 |  |  |  |
| Phenanthrene                | 1.22  | 0.17 | mg/Kg wet | 1.67 |  | 72.9 | 40-140 |  |  |  |
| Pyrene                      | 1.09  | 0.17 | mg/Kg wet | 1.67 |  | 65.3 | 40-140 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.61  |      | mg/Kg wet | 3.33 |  | 78.3 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.65  |      | mg/Kg wet | 3.33 |  | 79.6 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.38  |      | mg/Kg wet | 3.33 |  | 71.5 | 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 |
|------------------------------------|--------|-----------------|-----------|-------------|---------------------------------------|------|-------------|-------|-----------|-------|
| <b>Batch B182243 - SW-846 3546</b> |        |                 |           |             |                                       |      |             |       |           |       |
| <b>LCS Dup (B182243-BSD1)</b>      |        |                 |           |             | Prepared: 07/21/17 Analyzed: 07/22/17 |      |             |       |           |       |
| Acenaphthene                       | 1.16   | 0.17            | mg/Kg wet | 1.67        |                                       | 69.9 | 40-140      | 2.71  | 30        |       |
| Acenaphthylene                     | 1.13   | 0.17            | mg/Kg wet | 1.67        |                                       | 67.6 | 40-140      | 1.90  | 30        |       |
| Anthracene                         | 1.20   | 0.17            | mg/Kg wet | 1.67        |                                       | 71.7 | 40-140      | 0.999 | 30        |       |
| Benzo(a)anthracene                 | 1.12   | 0.17            | mg/Kg wet | 1.67        |                                       | 67.4 | 40-140      | 5.27  | 30        |       |
| Benzo(a)pyrene                     | 1.27   | 0.17            | mg/Kg wet | 1.67        |                                       | 76.0 | 40-140      | 4.41  | 30        |       |
| Benzo(b)fluoranthene               | 1.12   | 0.17            | mg/Kg wet | 1.67        |                                       | 67.0 | 40-140      | 1.95  | 30        |       |
| Benzo(g,h,i)perylene               | 1.20   | 0.17            | mg/Kg wet | 1.67        |                                       | 71.9 | 40-140      | 6.46  | 30        |       |
| Benzo(k)fluoranthene               | 1.24   | 0.17            | mg/Kg wet | 1.67        |                                       | 74.4 | 40-140      | 2.97  | 30        |       |
| Chrysene                           | 1.05   | 0.17            | mg/Kg wet | 1.67        |                                       | 63.2 | 40-140      | 6.00  | 30        |       |
| Dibenz(a,h)anthracene              | 1.19   | 0.17            | mg/Kg wet | 1.67        |                                       | 71.6 | 40-140      | 6.07  | 30        |       |
| Fluoranthene                       | 1.16   | 0.17            | mg/Kg wet | 1.67        |                                       | 69.4 | 40-140      | 0.775 | 30        |       |
| Fluorene                           | 1.18   | 0.17            | mg/Kg wet | 1.67        |                                       | 70.5 | 40-140      | 0.283 | 30        |       |
| Indeno(1,2,3-cd)pyrene             | 1.25   | 0.17            | mg/Kg wet | 1.67        |                                       | 74.8 | 40-140      | 11.0  | 30        |       |
| 2-Methylnaphthalene                | 1.20   | 0.17            | mg/Kg wet | 1.67        |                                       | 71.7 | 40-140      | 1.58  | 30        |       |
| Naphthalene                        | 1.10   | 0.17            | mg/Kg wet | 1.67        |                                       | 66.3 | 40-140      | 0.422 | 30        |       |
| Phenanthrene                       | 1.21   | 0.17            | mg/Kg wet | 1.67        |                                       | 72.6 | 40-140      | 0.440 | 30        |       |
| Pyrene                             | 1.19   | 0.17            | mg/Kg wet | 1.67        |                                       | 71.2 | 40-140      | 8.70  | 30        |       |
| Surrogate: Nitrobenzene-d5         | 2.48   |                 | mg/Kg wet | 3.33        |                                       | 74.4 | 30-130      |       |           |       |
| Surrogate: 2-Fluorobiphenyl        | 2.52   |                 | mg/Kg wet | 3.33        |                                       | 75.6 | 30-130      |       |           |       |
| Surrogate: p-Terphenyl-d14         | 2.56   |                 | mg/Kg wet | 3.33        |                                       | 76.9 | 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 |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| <b>Batch B181836 - SW-846 3540C</b>   |        |                 |           |             |               |      |             |      |           |       |
| <b>Blank (B181836-BLK1)</b>           |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/17/17 Analyzed: 07/20/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           | R-05  |
| Aroclor-1016 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           | R-05  |
| Aroclor-1221                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1221 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1232                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1232 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1242                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1242 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1248                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1248 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1254                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1254 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1260                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           | R-05  |
| Aroclor-1260 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           | R-05  |
| Aroclor-1262                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1262 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1268                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1268 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Surrogate: Decachlorobiphenyl         | 0.210  |                 | mg/Kg wet | 0.200       |               | 105  | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.174  |                 | mg/Kg wet | 0.200       |               | 86.8 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.191  |                 | mg/Kg wet | 0.200       |               | 95.6 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.168  |                 | mg/Kg wet | 0.200       |               | 84.2 | 30-150      |      |           |       |
| <b>LCS (B181836-BS1)</b>              |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/17/17 Analyzed: 07/20/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | 0.20   | 0.020           | mg/Kg wet | 0.200       |               | 97.6 | 40-140      |      |           | R-05  |
| Aroclor-1016 [2C]                     | 0.20   | 0.020           | mg/Kg wet | 0.200       |               | 99.0 | 40-140      |      |           | R-05  |
| Aroclor-1260                          | 0.18   | 0.020           | mg/Kg wet | 0.200       |               | 90.4 | 40-140      |      |           | R-05  |
| Aroclor-1260 [2C]                     | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 82.5 | 40-140      |      |           | R-05  |
| Surrogate: Decachlorobiphenyl         | 0.205  |                 | mg/Kg wet | 0.200       |               | 103  | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.174  |                 | mg/Kg wet | 0.200       |               | 86.9 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.185  |                 | mg/Kg wet | 0.200       |               | 92.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.159  |                 | mg/Kg wet | 0.200       |               | 79.6 | 30-150      |      |           |       |
| <b>LCS Dup (B181836-BSD1)</b>         |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/17/17 Analyzed: 07/20/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | 0.12   | 0.020           | mg/Kg wet | 0.200       |               | 62.4 | 40-140      | 43.9 | * 30      | R-05  |
| Aroclor-1016 [2C]                     | 0.13   | 0.020           | mg/Kg wet | 0.200       |               | 63.1 | 40-140      | 44.2 | * 30      | R-05  |
| Aroclor-1260                          | 0.11   | 0.020           | mg/Kg wet | 0.200       |               | 54.1 | 40-140      | 50.3 | * 30      | R-05  |
| Aroclor-1260 [2C]                     | 0.099  | 0.020           | mg/Kg wet | 0.200       |               | 49.5 | 40-140      | 50.0 | * 30      | R-05  |
| Surrogate: Decachlorobiphenyl         | 0.113  |                 | mg/Kg wet | 0.200       |               | 56.3 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.121  |                 | mg/Kg wet | 0.200       |               | 60.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.135  |                 | mg/Kg wet | 0.200       |               | 67.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.153  |                 | mg/Kg wet | 0.200       |               | 76.7 | 30-150      |      |           |       |

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## QUALITY CONTROL

## Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Batch B181836 - SW-846 3540C

| Matrix Spike (B181836-MS1)           |       | Source: 17G0626-18 |           | Prepared: 07/17/17 Analyzed: 07/20/17 |    |      |        |       |    |      |
|--------------------------------------|-------|--------------------|-----------|---------------------------------------|----|------|--------|-------|----|------|
| Aroclor-1016                         | 0.18  | 0.11               | mg/Kg dry | 0.212                                 | ND | 86.1 | 40-140 |       |    | R-05 |
| Aroclor-1016 [2C]                    | 0.16  | 0.11               | mg/Kg dry | 0.212                                 | ND | 76.1 | 40-140 |       |    | R-05 |
| Aroclor-1260                         | 0.15  | 0.11               | mg/Kg dry | 0.212                                 | ND | 68.7 | 40-140 |       |    | R-05 |
| Aroclor-1260 [2C]                    | 0.14  | 0.11               | mg/Kg dry | 0.212                                 | ND | 65.6 | 40-140 |       |    | R-05 |
| Surrogate: Decachlorobiphenyl        | 0.138 |                    | mg/Kg dry | 0.212                                 |    | 65.3 | 30-150 |       |    |      |
| Surrogate: Decachlorobiphenyl [2C]   | 0.154 |                    | mg/Kg dry | 0.212                                 |    | 72.9 | 30-150 |       |    |      |
| Surrogate: Tetrachloro-m-xylene      | 0.167 |                    | mg/Kg dry | 0.212                                 |    | 78.8 | 30-150 |       |    |      |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.179 |                    | mg/Kg dry | 0.212                                 |    | 84.5 | 30-150 |       |    |      |
| Matrix Spike Dup (B181836-MSD1)      |       | Source: 17G0626-18 |           | Prepared: 07/17/17 Analyzed: 07/20/17 |    |      |        |       |    |      |
| Aroclor-1016                         | 0.19  | 0.11               | mg/Kg dry | 0.212                                 | ND | 89.4 | 40-140 | 3.76  | 50 | R-05 |
| Aroclor-1016 [2C]                    | 0.16  | 0.11               | mg/Kg dry | 0.212                                 | ND | 76.6 | 40-140 | 0.642 | 50 | R-05 |
| Aroclor-1260                         | 0.15  | 0.11               | mg/Kg dry | 0.212                                 | ND | 70.9 | 40-140 | 3.14  | 50 | R-05 |
| Aroclor-1260 [2C]                    | 0.14  | 0.11               | mg/Kg dry | 0.212                                 | ND | 67.7 | 40-140 | 3.03  | 50 | R-05 |
| Surrogate: Decachlorobiphenyl        | 0.146 |                    | mg/Kg dry | 0.212                                 |    | 69.1 | 30-150 |       |    |      |
| Surrogate: Decachlorobiphenyl [2C]   | 0.164 |                    | mg/Kg dry | 0.212                                 |    | 77.4 | 30-150 |       |    |      |
| Surrogate: Tetrachloro-m-xylene      | 0.173 |                    | mg/Kg dry | 0.212                                 |    | 81.9 | 30-150 |       |    |      |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.182 |                    | mg/Kg dry | 0.212                                 |    | 85.9 | 30-150 |       |    |      |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B182266 - SW-846 3546</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B182266-BLK1)</b>        |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                                       |                  |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 2.93   |                    | mg/Kg wet | 3.33                                  |                  | 87.9 | 50-150         |      |              |       |
| <b>LCS (B182266-BS1)</b>           |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | 25.1   | 10                 | mg/Kg wet | 33.3                                  |                  | 75.3 | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 2.65   |                    | mg/Kg wet | 3.33                                  |                  | 79.4 | 50-150         |      |              |       |
| <b>LCS Dup (B182266-BSD1)</b>      |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | 23.8   | 10                 | mg/Kg wet | 33.3                                  |                  | 71.3 | 60-120         | 5.50 | 30           |       |
| Surrogate: o-Terphenyl             | 2.62   |                    | mg/Kg wet | 3.33                                  |                  | 78.5 | 50-150         |      |              |       |

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

| Analyte                             | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182155 - SW-846 3050B</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>Blank (B182155-BLK1)</b>         |        |                    |           |                | Prepared: 07/20/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Arsenic                             | ND     | 2.5                | mg/Kg wet |                |                                       |      |                |      |              |       |
| <b>LCS (B182155-BS1)</b>            |        |                    |           |                | Prepared: 07/20/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Arsenic                             | 52.4   | 4.9                | mg/Kg wet | 57.0           |                                       | 92.0 | 77.8-122.1     |      |              |       |
| <b>LCS Dup (B182155-BSD1)</b>       |        |                    |           |                | Prepared: 07/20/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Arsenic                             | 54.4   | 5.0                | mg/Kg wet | 57.0           |                                       | 95.4 | 77.8-122.1     | 3.72 | 30           |       |
| <b>Duplicate (B182155-DUP1)</b>     |        |                    |           |                | Prepared: 07/20/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Arsenic                             | 115    | 2.9                | mg/Kg dry |                | 117                                   |      |                | 1.51 | 35           |       |
| <b>Matrix Spike (B182155-MS1)</b>   |        |                    |           |                | Prepared: 07/20/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Arsenic                             | 149    | 3.0                | mg/Kg dry | 29.9           | 117                                   | 105  | 75-125         |      |              |       |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182096 - % Solids**

|                                 |      |                           |      |                                       |      |  |  |       |    |  |
|---------------------------------|------|---------------------------|------|---------------------------------------|------|--|--|-------|----|--|
| <b>Duplicate (B182096-DUP1)</b> |      | <b>Source: 17G0626-17</b> |      | Prepared: 07/20/17 Analyzed: 07/21/17 |      |  |  |       |    |  |
| % Solids                        | 64.5 |                           | % Wt |                                       | 66.0 |  |  | 2.30  | 20 |  |
| <b>Duplicate (B182096-DUP2)</b> |      | <b>Source: 17G0626-18</b> |      | Prepared: 07/20/17 Analyzed: 07/21/17 |      |  |  |       |    |  |
| % Solids                        | 95.4 |                           | % Wt |                                       | 94.5 |  |  | 0.948 | 20 |  |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B181836-BS1 Date(s) Analyzed: 07/20/2017 07/20/2017

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 | 0.20          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.20          | 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: B181836-BSD1 Date(s) Analyzed: 07/20/2017 07/20/2017

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 | 0.12          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.13          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.11          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.099         | 10.5 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*
**Matrix Spike**

Lab Sample ID: B181836-MS1 Date(s) Analyzed: 07/20/2017 07/20/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.18          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 11.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 6.9  |



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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

Matrix Spike Dup

Lab Sample ID: B181836-MSD1 Date(s) Analyzed: 07/20/2017 07/20/2017

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 | 0.16          | 17.1 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 6.9  |

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**FLAG/QUALIFIER SUMMARY**

|      |                                                                                                                                                        |
|------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| *    | QC result is outside of established limits.                                                                                                            |
| †    | Wide recovery limits established for difficult compound.                                                                                               |
| ‡    | Wide RPD limits established for difficult compound.                                                                                                    |
| #    | Data exceeded client recommended or regulatory level                                                                                                   |
| ND   | Not Detected                                                                                                                                           |
| RL   | Reporting Limit                                                                                                                                        |
| DL   | Method Detection Limit                                                                                                                                 |
| MCL  | Maximum Contaminant Level                                                                                                                              |
|      | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded. |
|      | No results have been blank subtracted unless specified in the case narrative section.                                                                  |
| R-05 | Laboratory fortified blank duplicate RPD is outside of control limits. Reduced precision is anticipated for any reported value for this compound.      |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| Acenaphthene                         | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                       | CT,NY,NH,ME,NC,VA |
| Anthracene                           | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                   | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                       | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                 | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Chrysene                             | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                | CT,NY,NH,ME,NC,VA |
| Fluoranthene                         | CT,NY,NH,ME,NC,VA |
| Fluorene                             | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene               | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                  | CT,NY,NH,ME,NC,VA |
| Naphthalene                          | CT,NY,NH,ME,NC,VA |
| Phenanthrene                         | CT,NY,NH,ME,NC,VA |
| Pyrene                               | CT,NY,NH,ME,NC,VA |

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

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





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 7/17/17 Time 1645

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

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 5.8  
By Blank #        Actual Temp -       

Was Custody Seal Intact? N/A Were Samples Tampered with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T

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

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

Did COC include all Client T Analysis T Sampler Name T  
pertinent Information? 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

Proper Media/Containers Used? T MS/MSD? N/A

Were trip blanks received? N/A Is splitting samples required? N/A

Do all samples have the proper pH? N/A On COC? 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 <u>22</u> |
| 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\A072517\A0725042.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/25/17  
 Data File Name A0725042.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | %D +/- 20 |
|-------------|----------|-----------------|------------------|-----------|
| c - 9       | 1.08     | 469269          | 528199           | -11       |
| c - 10      | 1.43     | 477954          | 528199           | -10       |
| c - 12      | 2.17     | 431449          | 528199           | -18       |
| c - 14      | 2.84     | 526968          | 528199           | 0         |
| c - 16      | 3.44     | 546472          | 528199           | 3         |
| c - 18      | 4.02     | 544933          | 528199           | 3         |
| o-Terphenyl | 4.31     | 633988          | 528199           |           |
| c - 20      | 4.64     | 558949          | 528199           | 6         |
| c - 22      | 5.16     | 569101          | 528199           | 8         |
| c - 24      | 5.60     | 535615          | 528199           | 1         |
| c - 26      | 6.00     | 566663          | 528199           | 7         |
| c - 28      | 6.36     | 560787          | 528199           | 6         |
| c - 30      | 6.70     | 552619          | 528199           | 5         |
| c - 32      | 7.01     | 532601          | 528199           | 1         |
| c - 34      | 7.30     | 527781          | 528199           | 0         |
| c - 36      | 7.59     | 521829          | 528199           | -1        |

\* One compound allowed %D &lt;= 50%

**Samples**

1G0678-01  
 17G0678-02  
 17G0938-01  
 17G0803-01  
 17G0639-01  
 17G0639-02  
 17G0754-01  
 17G0780-01  
 17G0784-16  
 17G0784-17  
 17G0784-18  
 17G0784-20



D:\HPCHEM\1\DATA\A072517\A0725096.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
 Data File Name A0725096.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | %D +/- 20 |
|-------------|----------|-----------------|------------------|-----------|
| c - 9       | 1.08     | 434667          | 494774           | -12       |
| c - 10      | 1.43     | 431422          | 494774           | -13       |
| c - 12      | 2.17     | 456436          | 494774           | -8        |
| c - 14      | 2.84     | 474091          | 494774           | -4        |
| c - 16      | 3.44     | 492084          | 494774           | -1        |
| c - 18      | 4.02     | 491737          | 494774           | -1        |
| o-Terphenyl | 4.31     | 572769          | 494774           |           |
| c - 20      | 4.64     | 506573          | 494774           | 2         |
| c - 22      | 5.16     | 520754          | 494774           | 5         |
| c - 24      | 5.60     | 492789          | 494774           | 0         |
| c - 26      | 6.00     | 528658          | 494774           | 7         |
| c - 28      | 6.36     | 527791          | 494774           | 7         |
| c - 30      | 6.70     | 531746          | 494774           | 7         |
| c - 32      | 7.01     | 517946          | 494774           | 5         |
| c - 34      | 7.30     | 513504          | 494774           | 4         |
| c - 36      | 7.58     | 501410          | 494774           | 1         |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0780-02  
 17G0754-02  
 17G0754-03  
 17G0754-04  
 17G0754-05  
 17G0784-01  
 17G0784-02  
 17G0784-05  
 17G0784-06  
 17G0784-07  
 17G0784-08  
 17G0784-09  
 17G0784-10  
 17G0784-11  
 17G0784-12  
 17G0784-13

D:\HPCHEM\1\DATA\A072517.SEC\A0725043.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/25/17  
 Data File Name A0725043.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 529066          | 555179           | -5         |
| c - 10      | 1.49     | 534758          | 555179           | -4         |
| c - 12      | 2.22     | 555660          | 555179           | 0          |
| c - 14      | 2.88     | 567316          | 555179           | 2          |
| c - 16      | 3.48     | 576001          | 555179           | 4          |
| c - 18      | 4.06     | 569798          | 555179           | 3          |
| o-Terphenyl | 4.35     | 654599          | 555179           |            |
| c - 20      | 4.67     | 578039          | 555179           | 4          |
| c - 22      | 5.18     | 584712          | 555179           | 5          |
| c - 24      | 5.62     | 543245          | 555179           | -2         |
| c - 26      | 6.01     | 569376          | 555179           | 3          |
| c - 28      | 6.37     | 558962          | 555179           | 1          |
| c - 30      | 6.70     | 552601          | 555179           | 0          |
| c - 32      | 7.01     | 535992          | 555179           | -3         |
| c - 34      | 7.30     | 536320          | 555179           | -3         |
| c - 36      | 7.58     | 535844          | 555179           | -3         |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0755-01  
 17G0626-08@5X  
 17G0786-04  
 17G0786-05  
 17G0786-06  
 17G0786-08

D:\HPCHEM\1\DATA\A072517.SEC\A0725097.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
Data File Name A0725097.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 423007          | 448464           | -6         |
| c - 10      | 1.49     | 424085          | 448464           | -5         |
| c - 12      | 2.22     | 443558          | 448464           | -1         |
| c - 14      | 2.89     | 454055          | 448464           | 1          |
| c - 16      | 3.48     | 463539          | 448464           | 3          |
| c - 18      | 4.06     | 457315          | 448464           | 2          |
| o-Terphenyl | 4.36     | 523389          | 448464           |            |
| c - 20      | 4.67     | 464553          | 448464           | 4          |
| c - 22      | 5.18     | 469869          | 448464           | 5          |
| c - 24      | 5.62     | 437856          | 448464           | -2         |
| c - 26      | 6.01     | 460754          | 448464           | 3          |
| c - 28      | 6.37     | 453390          | 448464           | 1          |
| c - 30      | 6.70     | 451107          | 448464           | 1          |
| c - 32      | 7.01     | 439832          | 448464           | -2         |
| c - 34      | 7.30     | 441689          | 448464           | -2         |
| c - 36      | 7.58     | 442356          | 448464           | -1         |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0786-12  
17G0785-01  
17G0785-02  
17G0785-03  
17G0785-04  
17G0785-07  
17G0785-13  
17G0785-14

D:\HPCHEM\1\DATA\A072517.SEC\A0725153.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
Data File Name A0725153.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 459390          | 476901           | -4         |
| c - 10      | 1.49     | 457897          | 476901           | -4         |
| c - 12      | 2.22     | 480908          | 476901           | 1          |
| c - 14      | 2.89     | 485375          | 476901           | 2          |
| c - 16      | 3.48     | 493163          | 476901           | 3          |
| c - 18      | 4.06     | 484784          | 476901           | 2          |
| o-Terphenyl | 4.36     | 554345          | 476901           |            |
| c - 20      | 4.67     | 492008          | 476901           | 3          |
| c - 22      | 5.18     | 497228          | 476901           | 4          |
| c - 24      | 5.62     | 462983          | 476901           | -3         |
| c - 26      | 6.01     | 487104          | 476901           | 2          |
| c - 28      | 6.37     | 479218          | 476901           | 0          |
| c - 30      | 6.70     | 476761          | 476901           | 0          |
| c - 32      | 7.01     | 464381          | 476901           | -3         |
| c - 34      | 7.30     | 465959          | 476901           | -2         |
| c - 36      | 7.58     | 466352          | 476901           | -2         |

\* One compound allowed %D &lt;= 50%

Samples

17G0628-02



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

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

**Client:** Weston & Sampson

**Project Location:** New Haven, CT

**Project Number:** 17G0626

**Laboratory Sample ID(s):**

17G0626-01 thru 17G0626-20

**Sample Date(s):**

07/17/2017

**List RCP Methods Used:**

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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 07/26/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 26, 2017

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

Project Location: New Haven, CT  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 17G0628

Enclosed are results of analyses for samples received by the laboratory on July 17, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

James M. Georgantas  
Project Manager

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

REPORT DATE: 7/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0628

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

PROJECT LOCATION: New Haven, CT

| FIELD SAMPLE #     | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                     | SUB LAB |
|--------------------|------------|--------|--------------------|------------------------------------------|---------|
| WS-AOC12W-SO-23-1A | 17G0628-01 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-23-1B | 17G0628-02 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D |         |
| WS-AOC12W-SO-23-2  | 17G0628-03 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-23-3  | 17G0628-04 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-27-1  | 17G0628-05 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-27-2  | 17G0628-06 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-27-3  | 17G0628-07 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-10-1  | 17G0628-08 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-10-2  | 17G0628-09 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-10-3  | 17G0628-10 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-18-1A | 17G0628-11 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-18-1B | 17G0628-12 | Soil   |                    | SM 2540G<br>SW-846 8270D                 |         |
| WS-AOC12W-SO-18-2  | 17G0628-13 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-18-3  | 17G0628-14 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-31-1  | 17G0628-15 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-31-2  | 17G0628-16 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-31-3  | 17G0628-17 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-32-1  | 17G0628-18 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-32-2  | 17G0628-19 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-32-3  | 17G0628-20 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |

#### **CASE NARRATIVE SUMMARY**

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

For method 8270, only PAHs were requested and reported.

For method 6010, only As was requested and reported.

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SW-846 8270D

**Qualifications:****MS-09**

Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.

**Analyte & Samples(s) Qualified:****Benzo(b)fluoranthene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MS1, B182275-MSD1

**Benzo(g,h,i)perylene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MS1, B182275-MSD1

**Indeno(1,2,3-cd)pyrene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MS1, B182275-MSD1

**MS-22**

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

**Analyte & Samples(s) Qualified:****Benzo(a)pyrene**

B182275-MSD1

**Benzo(k)fluoranthene**

B182275-MSD1

**Chrysene**

B182275-MS1

**Dibenz(a,h)anthracene**

B182275-MSD1

**Fluoranthene**

B182275-MS1

**Naphthalene**

B182275-MS1

**MS-23**

Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound.

**Analyte & Samples(s) Qualified:****2-Methylnaphthalene**

B182275-MS1

**Phenanthrene**

B182275-MS1

**R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****2-Methylnaphthalene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MSD1

**Benzo(g,h,i)perylene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MS1, B182275-MSD1

**Indeno(1,2,3-cd)pyrene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MS1, B182275-MSD1

**Phenanthrene**

17G0628-12[WS-AOC12W-SO-18-1B], B182275-MSD1

---

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.

A handwritten signature in black ink, appearing to read "Lisa Worthington", is written over a light gray rectangular background.

Lisa A. Worthington  
Project Manager

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-1A

Sampled: 7/17/2017 12:03

Sample ID: 17G0628-01

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 | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:30      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 101        | 30-150          |           |          |           |              |               | 7/20/17 16:30      |         |
| Decachlorobiphenyl [2]   | 101        | 30-150          |           |          |           |              |               | 7/20/17 16:30      |         |
| Tetrachloro-m-xylene [1] | 77.9       | 30-150          |           |          |           |              |               | 7/20/17 16:30      |         |
| Tetrachloro-m-xylene [2] | 83.9       | 30-150          |           |          |           |              |               | 7/20/17 16:30      |         |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-1A

Sampled: 7/17/2017 12:03

Sample ID: 17G0628-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 89.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-1B

Sampled: 7/17/2017 12:05

Sample ID: 17G0628-02

Sample Matrix: Soil

### Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 98         | 11 | mg/Kg dry       | 1        |           | CTDEP ETPH | 7/21/17       | 7/26/17 9:52       | SCS     |
| Surrogates  | % Recovery |    | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 74.9       |    | 50-150          |          |           |            |               | 7/26/17 9:52       |         |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-1B

Sampled: 7/17/2017 12:05

Sample ID: 17G0628-02

Sample Matrix: Soil

---

**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 210     | 2.8 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 5:05          | QNW     |



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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-1B

Sampled: 7/17/2017 12:05

Sample ID: 17G0628-02

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 89.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-2

Sampled: 7/17/2017 12:07

Sample ID: 17G0628-03

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 | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:42      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 103        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 102        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 77.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 84.1       | 30-150          |           |          |           |              |               |                    |         |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-2

Sampled: 7/17/2017 12:07

Sample ID: 17G0628-03

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.7    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-3

Sampled: 7/17/2017 12:09

Sample ID: 17G0628-04

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 | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 16:54      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 107        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 104        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 77.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 84.8       | 30-150          |           |          |           |              |               |                    |         |

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Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-23-3

Sampled: 7/17/2017 12:09

Sample ID: 17G0628-04

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.7    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-1

Sampled: 7/17/2017 12:22

Sample ID: 17G0628-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:06      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 108        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 105        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 82.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 88.9       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-1

Sampled: 7/17/2017 12:22

Sample ID: 17G0628-05

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 97.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-2

Sampled: 7/17/2017 12:24

Sample ID: 17G0628-06

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:19      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 96.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 74.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.5       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-2

Sampled: 7/17/2017 12:24

Sample ID: 17G0628-06

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 88.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-3

Sampled: 7/17/2017 12:26

Sample ID: 17G0628-07

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 | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:31      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 96.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 100        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 76.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 82.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-27-3

Sampled: 7/17/2017 12:26

Sample ID: 17G0628-07

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-1

Sampled: 7/17/2017 12:31

Sample ID: 17G0628-08

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 | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 17:43      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 96.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 75.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 83.1       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-1

Sampled: 7/17/2017 12:31

Sample ID: 17G0628-08

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-2

Sampled: 7/17/2017 12:32

Sample ID: 17G0628-09

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:32      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 84.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 85.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 70.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 76.9       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-2

Sampled: 7/17/2017 12:32

Sample ID: 17G0628-09

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 | 87.4    |    | % Wt  | 1        |           | SM 2540G | 7/20/17       | 7/21/17 7:45       | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-3

Sampled: 7/17/2017 12:33

Sample ID: 17G0628-10

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:44      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 96.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 93.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 68.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 74.1       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-10-3

Sampled: 7/17/2017 12:33

Sample ID: 17G0628-10

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.2    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-1A

Sampled: 7/17/2017 12:56

Sample ID: 17G0628-11

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 18:57      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 99.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 79.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 86.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-1A

Sampled: 7/17/2017 12:56

Sample ID: 17G0628-11

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-1B

Sampled: 7/17/2017 12:57

Sample ID: 17G0628-12

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual   | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-------------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Acenaphthylene         | ND         | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Anthracene             | ND         | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Benzo(a)anthracene     | 0.81       | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Benzo(a)pyrene         | 0.46       | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Benzo(b)fluoranthene   | 0.75       | 0.21            | mg/Kg dry | 1        | MS-09       | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Benzo(g,h,i)perylene   | 0.44       | 0.21            | mg/Kg dry | 1        | MS-09, R-06 | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Benzo(k)fluoranthene   | 0.24       | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Chrysene               | 1.5        | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Fluoranthene           | 1.4        | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Fluorene               | ND         | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Indeno(1,2,3-cd)pyrene | 0.36       | 0.21            | mg/Kg dry | 1        | MS-09, R-06 | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| 2-Methylnaphthalene    | 1.2        | 0.21            | mg/Kg dry | 1        | R-06        | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Naphthalene            | 0.69       | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Phenanthrene           | 2.6        | 0.21            | mg/Kg dry | 1        | R-06        | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Pyrene                 | 1.6        | 0.21            | mg/Kg dry | 1        |             | SW-846 8270D | 7/21/17       | 7/24/17 16:01      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |             |              |               |                    |         |
| Nitrobenzene-d5        | 66.9       | 30-130          |           |          |             |              |               |                    |         |
| 2-Fluorobiphenyl       | 67.6       | 30-130          |           |          |             |              |               |                    |         |
| p-Terphenyl-d14        | 98.4       | 30-130          |           |          |             |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-1B

Sampled: 7/17/2017 12:57

Sample ID: 17G0628-12

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 80.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-2

Sampled: 7/17/2017 12:58

Sample ID: 17G0628-13

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:09      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 79.1       | 30-150          |           |          |           |              |               | 7/20/17 19:09      |         |
| Decachlorobiphenyl [2]   | 86.2       | 30-150          |           |          |           |              |               | 7/20/17 19:09      |         |
| Tetrachloro-m-xylene [1] | 67.3       | 30-150          |           |          |           |              |               | 7/20/17 19:09      |         |
| Tetrachloro-m-xylene [2] | 74.1       | 30-150          |           |          |           |              |               | 7/20/17 19:09      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-2

Sampled: 7/17/2017 12:58

Sample ID: 17G0628-13

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 88.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-3

Sampled: 7/17/2017 12:59

Sample ID: 17G0628-14

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1221 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1232 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1242 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1248 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1254 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1260 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1262 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Aroclor-1268 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:21      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 93.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 95.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 76.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 83.2       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-18-3

Sampled: 7/17/2017 12:59

Sample ID: 17G0628-14

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 79.4    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-1

Sampled: 7/17/2017 12:46

Sample ID: 17G0628-15

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:33      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 64.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 67.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 56.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 61.9       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-1

Sampled: 7/17/2017 12:46

Sample ID: 17G0628-15

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 91.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-2

Sampled: 7/17/2017 12:48

Sample ID: 17G0628-16

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:46      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 78.7       | 30-150          |           |          |           |              |               | 7/20/17 19:46      |         |
| Decachlorobiphenyl [2]   | 80.5       | 30-150          |           |          |           |              |               | 7/20/17 19:46      |         |
| Tetrachloro-m-xylene [1] | 70.1       | 30-150          |           |          |           |              |               | 7/20/17 19:46      |         |
| Tetrachloro-m-xylene [2] | 75.9       | 30-150          |           |          |           |              |               | 7/20/17 19:46      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-2

Sampled: 7/17/2017 12:48

Sample ID: 17G0628-16

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.2    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-3

Sampled: 7/17/2017 12:50

Sample ID: 17G0628-17

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 19:58      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 97.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 93.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 79.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 86.1       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-31-3

Sampled: 7/17/2017 12:50

Sample ID: 17G0628-17

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.1    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-1

Sampled: 7/17/2017 13:07

Sample ID: 17G0628-18

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 | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:10      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 95.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 94.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 81.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 88.3       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-1

Sampled: 7/17/2017 13:07

Sample ID: 17G0628-18

Sample Matrix: Soil

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

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-2

Sampled: 7/17/2017 13:09

Sample ID: 17G0628-19

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:22      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 39.2       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 46.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 36.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 40.8       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-2

Sampled: 7/17/2017 13:09

Sample ID: 17G0628-19

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.2    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-3

Sampled: 7/17/2017 13:11

Sample ID: 17G0628-20

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1221 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1232 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1242 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1248 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1254 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1260 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1262 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Aroclor-1268 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/17/17       | 7/20/17 20:35      | TG      |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 96.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 96.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 82.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 88.3       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0628

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-32-3

Sampled: 7/17/2017 13:11

Sample ID: 17G0628-20

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 78.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0628-02 [WS-AOC12W-SO-23-1B] | B182266 | 30.0        | 1.00       | 07/21/17 |

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

| Lab Number [Field ID]           | Batch   | Date     |
|---------------------------------|---------|----------|
| 17G0628-01 [WS-AOC12W-SO-23-1A] | B182096 | 07/20/17 |
| 17G0628-02 [WS-AOC12W-SO-23-1B] | B182096 | 07/20/17 |
| 17G0628-03 [WS-AOC12W-SO-23-2]  | B182096 | 07/20/17 |
| 17G0628-04 [WS-AOC12W-SO-23-3]  | B182096 | 07/20/17 |
| 17G0628-05 [WS-AOC12W-SO-27-1]  | B182096 | 07/20/17 |
| 17G0628-06 [WS-AOC12W-SO-27-2]  | B182096 | 07/20/17 |
| 17G0628-07 [WS-AOC12W-SO-27-3]  | B182096 | 07/20/17 |
| 17G0628-08 [WS-AOC12W-SO-10-1]  | B182096 | 07/20/17 |
| 17G0628-09 [WS-AOC12W-SO-10-2]  | B182096 | 07/20/17 |
| 17G0628-10 [WS-AOC12W-SO-10-3]  | B182096 | 07/20/17 |
| 17G0628-11 [WS-AOC12W-SO-18-1A] | B182096 | 07/20/17 |
| 17G0628-12 [WS-AOC12W-SO-18-1B] | B182096 | 07/20/17 |
| 17G0628-13 [WS-AOC12W-SO-18-2]  | B182096 | 07/20/17 |
| 17G0628-14 [WS-AOC12W-SO-18-3]  | B182096 | 07/20/17 |
| 17G0628-15 [WS-AOC12W-SO-31-1]  | B182096 | 07/20/17 |
| 17G0628-16 [WS-AOC12W-SO-31-2]  | B182096 | 07/20/17 |
| 17G0628-17 [WS-AOC12W-SO-31-3]  | B182096 | 07/20/17 |
| 17G0628-18 [WS-AOC12W-SO-32-1]  | B182096 | 07/20/17 |
| 17G0628-19 [WS-AOC12W-SO-32-2]  | B182096 | 07/20/17 |
| 17G0628-20 [WS-AOC12W-SO-32-3]  | B182096 | 07/20/17 |

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

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0628-02 [WS-AOC12W-SO-23-1B] | B182155 | 1.01        | 50.0       | 07/20/17 |

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

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0628-01 [WS-AOC12W-SO-23-1A] | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-03 [WS-AOC12W-SO-23-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-04 [WS-AOC12W-SO-23-3]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-05 [WS-AOC12W-SO-27-1]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-06 [WS-AOC12W-SO-27-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-07 [WS-AOC12W-SO-27-3]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-08 [WS-AOC12W-SO-10-1]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-09 [WS-AOC12W-SO-10-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-10 [WS-AOC12W-SO-10-3]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-11 [WS-AOC12W-SO-18-1A] | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-13 [WS-AOC12W-SO-18-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-14 [WS-AOC12W-SO-18-3]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-15 [WS-AOC12W-SO-31-1]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-16 [WS-AOC12W-SO-31-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-17 [WS-AOC12W-SO-31-3]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-18 [WS-AOC12W-SO-32-1]  | B181837 | 10.0        | 10.0       | 07/17/17 |
| 17G0628-19 [WS-AOC12W-SO-32-2]  | B181837 | 10.0        | 10.0       | 07/17/17 |

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

**Sample Extraction Data**

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

| Lab Number [Field ID]          | Batch   | Initial [g] | Final [mL] | Date     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0628-20 [WS-AOC12W-SO-32-3] | B181837 | 10.0        | 10.0       | 07/17/17 |

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

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0628-12 [WS-AOC12W-SO-18-1B] | B182275 | 30.0        | 1.00       | 07/21/17 |

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 |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>Batch B182275 - SW-846 3546</b>    |        |                 |           |             |               |      |             |     |           |       |
| <b>Blank (B182275-BLK1)</b>           |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/21/17 Analyzed: 07/24/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Acenaphthylene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Anthracene                            | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)anthracene                    | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)pyrene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(b)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(g,h,i)perylene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(k)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Chrysene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Dibenz(a,h)anthracene                 | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluoranthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluorene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Indeno(1,2,3-cd)pyrene                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| 2-Methylnaphthalene                   | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Naphthalene                           | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Phenanthrene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Pyrene                                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.42   |                 | mg/Kg wet | 3.33        |               | 72.5 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.43   |                 | mg/Kg wet | 3.33        |               | 72.8 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.94   |                 | mg/Kg wet | 3.33        |               | 88.3 | 30-130      |     |           |       |
| <b>LCS (B182275-BS1)</b>              |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/21/17 Analyzed: 07/24/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | 1.14   | 0.17            | mg/Kg wet | 1.67        |               | 68.7 | 40-140      |     |           |       |
| Acenaphthylene                        | 1.11   | 0.17            | mg/Kg wet | 1.67        |               | 66.7 | 40-140      |     |           |       |
| Anthracene                            | 1.22   | 0.17            | mg/Kg wet | 1.67        |               | 73.1 | 40-140      |     |           |       |
| Benzo(a)anthracene                    | 1.24   | 0.17            | mg/Kg wet | 1.67        |               | 74.2 | 40-140      |     |           |       |
| Benzo(a)pyrene                        | 1.25   | 0.17            | mg/Kg wet | 1.67        |               | 75.1 | 40-140      |     |           |       |
| Benzo(b)fluoranthene                  | 1.15   | 0.17            | mg/Kg wet | 1.67        |               | 69.1 | 40-140      |     |           |       |
| Benzo(g,h,i)perylene                  | 1.50   | 0.17            | mg/Kg wet | 1.67        |               | 90.0 | 40-140      |     |           |       |
| Benzo(k)fluoranthene                  | 1.18   | 0.17            | mg/Kg wet | 1.67        |               | 70.9 | 40-140      |     |           |       |
| Chrysene                              | 1.22   | 0.17            | mg/Kg wet | 1.67        |               | 73.0 | 40-140      |     |           |       |
| Dibenz(a,h)anthracene                 | 1.41   | 0.17            | mg/Kg wet | 1.67        |               | 84.5 | 40-140      |     |           |       |
| Fluoranthene                          | 1.18   | 0.17            | mg/Kg wet | 1.67        |               | 70.9 | 40-140      |     |           |       |
| Fluorene                              | 1.16   | 0.17            | mg/Kg wet | 1.67        |               | 69.7 | 40-140      |     |           |       |
| Indeno(1,2,3-cd)pyrene                | 1.40   | 0.17            | mg/Kg wet | 1.67        |               | 84.0 | 40-140      |     |           |       |
| 2-Methylnaphthalene                   | 1.12   | 0.17            | mg/Kg wet | 1.67        |               | 67.4 | 40-140      |     |           |       |
| Naphthalene                           | 1.03   | 0.17            | mg/Kg wet | 1.67        |               | 61.8 | 40-140      |     |           |       |
| Phenanthrene                          | 1.23   | 0.17            | mg/Kg wet | 1.67        |               | 73.7 | 40-140      |     |           |       |
| Pyrene                                | 1.18   | 0.17            | mg/Kg wet | 1.67        |               | 70.8 | 40-140      |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.44   |                 | mg/Kg wet | 3.33        |               | 73.1 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.66   |                 | mg/Kg wet | 3.33        |               | 79.9 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.80   |                 | mg/Kg wet | 3.33        |               | 84.0 | 30-130      |     |           |       |



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       |
|----------------------------------------------------------|--------|-----------------|-----------|-------------|---------------|--------------|-------------|------|-----------|-------------|
| <b>Batch B182275 - SW-846 3546</b>                       |        |                 |           |             |               |              |             |      |           |             |
| <b>LCS Dup (B182275-BSD1)</b>                            |        |                 |           |             |               |              |             |      |           |             |
| Prepared: 07/21/17 Analyzed: 07/24/17                    |        |                 |           |             |               |              |             |      |           |             |
| Acenaphthene                                             | 1.03   | 0.17            | mg/Kg wet | 1.67        |               | 61.7         | 40-140      | 10.7 | 30        |             |
| Acenaphthylene                                           | 1.00   | 0.17            | mg/Kg wet | 1.67        |               | 60.2         | 40-140      | 10.2 | 30        |             |
| Anthracene                                               | 1.06   | 0.17            | mg/Kg wet | 1.67        |               | 63.9         | 40-140      | 13.4 | 30        |             |
| Benzo(a)anthracene                                       | 1.09   | 0.17            | mg/Kg wet | 1.67        |               | 65.6         | 40-140      | 12.4 | 30        |             |
| Benzo(a)pyrene                                           | 1.09   | 0.17            | mg/Kg wet | 1.67        |               | 65.5         | 40-140      | 13.7 | 30        |             |
| Benzo(b)fluoranthene                                     | 1.02   | 0.17            | mg/Kg wet | 1.67        |               | 61.1         | 40-140      | 12.3 | 30        |             |
| Benzo(g,h,i)perylene                                     | 1.27   | 0.17            | mg/Kg wet | 1.67        |               | 76.4         | 40-140      | 16.3 | 30        |             |
| Benzo(k)fluoranthene                                     | 1.02   | 0.17            | mg/Kg wet | 1.67        |               | 61.2         | 40-140      | 14.7 | 30        |             |
| Chrysene                                                 | 1.08   | 0.17            | mg/Kg wet | 1.67        |               | 65.0         | 40-140      | 11.7 | 30        |             |
| Dibenz(a,h)anthracene                                    | 1.21   | 0.17            | mg/Kg wet | 1.67        |               | 72.7         | 40-140      | 15.0 | 30        |             |
| Fluoranthene                                             | 1.05   | 0.17            | mg/Kg wet | 1.67        |               | 63.0         | 40-140      | 11.9 | 30        |             |
| Fluorene                                                 | 1.03   | 0.17            | mg/Kg wet | 1.67        |               | 61.8         | 40-140      | 11.9 | 30        |             |
| Indeno(1,2,3-cd)pyrene                                   | 1.18   | 0.17            | mg/Kg wet | 1.67        |               | 70.7         | 40-140      | 17.3 | 30        |             |
| 2-Methylnaphthalene                                      | 1.03   | 0.17            | mg/Kg wet | 1.67        |               | 61.7         | 40-140      | 8.86 | 30        |             |
| Naphthalene                                              | 0.990  | 0.17            | mg/Kg wet | 1.67        |               | 59.4         | 40-140      | 4.03 | 30        |             |
| Phenanthrene                                             | 1.07   | 0.17            | mg/Kg wet | 1.67        |               | 64.0         | 40-140      | 14.0 | 30        |             |
| Pyrene                                                   | 1.03   | 0.17            | mg/Kg wet | 1.67        |               | 61.9         | 40-140      | 13.3 | 30        |             |
| Surrogate: Nitrobenzene-d5                               | 2.28   |                 | mg/Kg wet | 3.33        |               | 68.4         | 30-130      |      |           |             |
| Surrogate: 2-Fluorobiphenyl                              | 2.36   |                 | mg/Kg wet | 3.33        |               | 70.8         | 30-130      |      |           |             |
| Surrogate: p-Terphenyl-d14                               | 2.43   |                 | mg/Kg wet | 3.33        |               | 72.8         | 30-130      |      |           |             |
| <b>Matrix Spike (B182275-MS1)</b>                        |        |                 |           |             |               |              |             |      |           |             |
| Source: 17G0628-12 Prepared: 07/21/17 Analyzed: 07/24/17 |        |                 |           |             |               |              |             |      |           |             |
| Acenaphthene                                             | 1.25   | 0.21            | mg/Kg dry | 2.08        | ND            | 60.1         | 40-140      |      |           |             |
| Acenaphthylene                                           | 1.18   | 0.21            | mg/Kg dry | 2.08        | ND            | 56.4         | 40-140      |      |           |             |
| Anthracene                                               | 1.29   | 0.21            | mg/Kg dry | 2.08        | ND            | 62.0         | 40-140      |      |           |             |
| Benzo(a)anthracene                                       | 1.68   | 0.21            | mg/Kg dry | 2.08        | 0.812         | 41.9         | 40-140      |      |           |             |
| Benzo(a)pyrene                                           | 1.33   | 0.21            | mg/Kg dry | 2.08        | 0.460         | 41.8         | 40-140      |      |           |             |
| <b>Benzo(b)fluoranthene</b>                              | 1.42   | 0.21            | mg/Kg dry | 2.08        | 0.752         | <b>31.9</b>  | * 40-140    |      |           | MS-09       |
| <b>Benzo(g,h,i)perylene</b>                              | 1.08   | 0.21            | mg/Kg dry | 2.08        | 0.445         | <b>30.7</b>  | * 40-140    |      |           | MS-09, R-06 |
| Benzo(k)fluoranthene                                     | 1.19   | 0.21            | mg/Kg dry | 2.08        | 0.236         | 45.9         | 40-140      |      |           |             |
| <b>Chrysene</b>                                          | 1.91   | 0.21            | mg/Kg dry | 2.08        | 1.51          | <b>19.1</b>  | * 40-140    |      |           | MS-22       |
| Dibenz(a,h)anthracene                                    | 1.13   | 0.21            | mg/Kg dry | 2.08        | 0.164         | 46.3         | 40-140      |      |           |             |
| <b>Fluoranthene</b>                                      | 1.85   | 0.21            | mg/Kg dry | 2.08        | 1.41          | <b>21.3</b>  | * 40-140    |      |           | MS-22       |
| Fluorene                                                 | 1.26   | 0.21            | mg/Kg dry | 2.08        | ND            | 60.6         | 40-140      |      |           |             |
| <b>Indeno(1,2,3-cd)pyrene</b>                            | 1.08   | 0.21            | mg/Kg dry | 2.08        | 0.365         | <b>34.3</b>  | * 40-140    |      |           | MS-09, R-06 |
| <b>2-Methylnaphthalene</b>                               | 1.59   | 0.21            | mg/Kg dry | 2.08        | 1.16          | <b>20.6</b>  | * 40-140    |      |           | MS-23       |
| <b>Naphthalene</b>                                       | 1.41   | 0.21            | mg/Kg dry | 2.08        | 0.689         | <b>34.5</b>  | * 40-140    |      |           | MS-22       |
| <b>Phenanthrene</b>                                      | 2.32   | 0.21            | mg/Kg dry | 2.08        | 2.63          | <b>-14.5</b> | * 40-140    |      |           | MS-23       |
| Pyrene                                                   | 2.63   | 0.21            | mg/Kg dry | 2.08        | 1.58          | 50.8         | 40-140      |      |           |             |
| Surrogate: Nitrobenzene-d5                               | 2.79   |                 | mg/Kg dry | 4.17        |               | 67.0         | 30-130      |      |           |             |
| Surrogate: 2-Fluorobiphenyl                              | 2.83   |                 | mg/Kg dry | 4.17        |               | 67.8         | 30-130      |      |           |             |
| Surrogate: p-Terphenyl-d14                               | 4.15   |                 | mg/Kg dry | 4.17        |               | 99.6         | 30-130      |      |           |             |

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## QUALITY CONTROL

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

| Analyte                                | Result                    | Reporting Limit | Units     | Spike Level                           | Source Result | %REC        | %REC Limits | RPD         | RPD Limit | Notes       |
|----------------------------------------|---------------------------|-----------------|-----------|---------------------------------------|---------------|-------------|-------------|-------------|-----------|-------------|
| <b>Batch B182275 - SW-846 3546</b>     |                           |                 |           |                                       |               |             |             |             |           |             |
| <b>Matrix Spike Dup (B182275-MSD1)</b> | <b>Source: 17G0628-12</b> |                 |           | Prepared: 07/21/17 Analyzed: 07/24/17 |               |             |             |             |           |             |
| Acenaphthene                           | 1.24                      | 0.21            | mg/Kg dry | 2.08                                  | ND            | 59.4        | 40-140      | 1.07        | 30        |             |
| Acenaphthylene                         | 1.06                      | 0.21            | mg/Kg dry | 2.08                                  | ND            | 50.7        | 40-140      | 10.7        | 30        |             |
| Anthracene                             | 1.24                      | 0.21            | mg/Kg dry | 2.08                                  | ND            | 59.5        | 40-140      | 4.18        | 30        |             |
| Benzo(a)anthracene                     | 1.75                      | 0.21            | mg/Kg dry | 2.08                                  | 0.812         | 44.8        | 40-140      | 3.57        | 30        |             |
| <b>Benzo(a)pyrene</b>                  | 1.12                      | 0.21            | mg/Kg dry | 2.08                                  | 0.460         | <b>31.8</b> | * 40-140    | 16.9        | 30        | MS-22       |
| <b>Benzo(b)fluoranthene</b>            | 1.48                      | 0.21            | mg/Kg dry | 2.08                                  | 0.752         | <b>35.0</b> | * 40-140    | 4.43        | 30        | MS-09       |
| <b>Benzo(g,h,i)perylene</b>            | 0.757                     | 0.21            | mg/Kg dry | 2.08                                  | 0.445         | <b>15.0</b> | * 40-140    | <b>35.5</b> | * 30      | MS-09, R-06 |
| <b>Benzo(k)fluoranthene</b>            | 1.04                      | 0.21            | mg/Kg dry | 2.08                                  | 0.236         | <b>38.7</b> | * 40-140    | 13.3        | 30        | MS-22       |
| Chrysene                               | 2.51                      | 0.21            | mg/Kg dry | 2.08                                  | 1.51          | 48.0        | 40-140      | 27.3        | 30        |             |
| <b>Dibenz(a,h)anthracene</b>           | 0.845                     | 0.21            | mg/Kg dry | 2.08                                  | 0.164         | <b>32.7</b> | * 40-140    | 28.7        | 30        | MS-22       |
| Fluoranthene                           | 2.46                      | 0.21            | mg/Kg dry | 2.08                                  | 1.41          | 50.7        | 40-140      | 28.5        | 30        |             |
| Fluorene                               | 1.28                      | 0.21            | mg/Kg dry | 2.08                                  | ND            | 61.3        | 40-140      | 1.05        | 30        |             |
| <b>Indeno(1,2,3-cd)pyrene</b>          | 0.755                     | 0.21            | mg/Kg dry | 2.08                                  | 0.365         | <b>18.7</b> | * 40-140    | <b>35.4</b> | * 30      | MS-09, R-06 |
| 2-Methylnaphthalene                    | 2.29                      | 0.21            | mg/Kg dry | 2.08                                  | 1.16          | 54.3        | 40-140      | <b>36.3</b> | * 30      | R-06        |
| Naphthalene                            | 1.83                      | 0.21            | mg/Kg dry | 2.08                                  | 0.689         | 54.9        | 40-140      | 26.2        | 30        |             |
| Phenanthrene                           | 4.19                      | 0.21            | mg/Kg dry | 2.08                                  | 2.63          | 74.9        | 40-140      | <b>57.2</b> | * 30      | R-06        |
| Pyrene                                 | 3.38                      | 0.21            | mg/Kg dry | 2.08                                  | 1.58          | 86.7        | 40-140      | 24.9        | 30        |             |
| Surrogate: Nitrobenzene-d5             | 2.76                      |                 | mg/Kg dry | 4.17                                  |               | 66.2        | 30-130      |             |           |             |
| Surrogate: 2-Fluorobiphenyl            | 2.67                      |                 | mg/Kg dry | 4.17                                  |               | 64.1        | 30-130      |             |           |             |
| Surrogate: p-Terphenyl-d14             | 4.29                      |                 | mg/Kg dry | 4.17                                  |               | 103         | 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 B181837 - SW-846 3540C**
**Blank (B181837-BLK1)**

Prepared: 07/17/17 Analyzed: 07/20/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| 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        | 0.230 |       | mg/Kg wet | 0.200 |  | 115  | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.221 |       | mg/Kg wet | 0.200 |  | 111  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.173 |       | mg/Kg wet | 0.200 |  | 86.5 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.179 |       | mg/Kg wet | 0.200 |  | 89.6 | 30-150 |  |  |  |

**LCS (B181837-BS1)**

Prepared: 07/17/17 Analyzed: 07/20/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 79.4 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.18  | 0.020 | mg/Kg wet | 0.200 |  | 88.2 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 79.6 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 78.9 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.213 |       | mg/Kg wet | 0.200 |  | 107  | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.205 |       | mg/Kg wet | 0.200 |  | 103  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.162 |       | mg/Kg wet | 0.200 |  | 80.8 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.168 |       | mg/Kg wet | 0.200 |  | 84.1 | 30-150 |  |  |  |

**LCS Dup (B181837-BSD1)**

Prepared: 07/17/17 Analyzed: 07/20/17

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 80.8 | 40-140 | 1.72 | 30 |  |
| Aroclor-1016 [2C]                    | 0.18  | 0.020 | mg/Kg wet | 0.200 |  | 89.9 | 40-140 | 1.86 | 30 |  |
| Aroclor-1260                         | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 85.0 | 40-140 | 6.52 | 30 |  |
| Aroclor-1260 [2C]                    | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 83.9 | 40-140 | 6.10 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.226 |       | mg/Kg wet | 0.200 |  | 113  | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.218 |       | mg/Kg wet | 0.200 |  | 109  | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.156 |       | mg/Kg wet | 0.200 |  | 77.9 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.162 |       | mg/Kg wet | 0.200 |  | 81.0 | 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 B181837 - SW-846 3540C**
**Matrix Spike (B181837-MS1)**
**Source: 17G0628-01**

Prepared: 07/17/17 Analyzed: 07/20/17

|                                      |       |      |           |       |    |      |        |  |  |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|--|--|--|
| Aroclor-1016                         | 0.20  | 0.11 | mg/Kg dry | 0.222 | ND | 88.4 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.20  | 0.11 | mg/Kg dry | 0.222 | ND | 91.9 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.18  | 0.11 | mg/Kg dry | 0.222 | ND | 81.8 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.18  | 0.11 | mg/Kg dry | 0.222 | ND | 81.7 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.209 |      | mg/Kg dry | 0.222 |    | 93.8 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.209 |      | mg/Kg dry | 0.222 |    | 93.7 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.171 |      | mg/Kg dry | 0.222 |    | 77.1 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.186 |      | mg/Kg dry | 0.222 |    | 83.6 | 30-150 |  |  |  |

**Matrix Spike Dup (B181837-MSD1)**
**Source: 17G0628-01**

Prepared: 07/17/17 Analyzed: 07/20/17

|                                      |       |      |           |       |    |      |        |       |    |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|-------|----|--|
| Aroclor-1016                         | 0.20  | 0.11 | mg/Kg dry | 0.222 | ND | 88.1 | 40-140 | 0.346 | 50 |  |
| Aroclor-1016 [2C]                    | 0.20  | 0.11 | mg/Kg dry | 0.222 | ND | 91.3 | 40-140 | 0.644 | 50 |  |
| Aroclor-1260                         | 0.18  | 0.11 | mg/Kg dry | 0.222 | ND | 81.7 | 40-140 | 0.190 | 50 |  |
| Aroclor-1260 [2C]                    | 0.18  | 0.11 | mg/Kg dry | 0.222 | ND | 82.2 | 40-140 | 0.644 | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.208 |      | mg/Kg dry | 0.222 |    | 93.6 | 30-150 |       |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.209 |      | mg/Kg dry | 0.222 |    | 93.8 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.168 |      | mg/Kg dry | 0.222 |    | 75.7 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.181 |      | mg/Kg dry | 0.222 |    | 81.4 | 30-150 |       |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182266 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>Blank (B182266-BLK1)</b>        |        |                    |           |                | Prepared: 07/21/17 Analyzed: 07/24/17 |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                |                                       |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 2.93   |                    | mg/Kg wet | 3.33           |                                       | 87.9 | 50-150         |      |              |       |
| <b>LCS (B182266-BS1)</b>           |        |                    |           |                | Prepared: 07/21/17 Analyzed: 07/24/17 |      |                |      |              |       |
| CT ETPH                            | 25.1   | 10                 | mg/Kg wet | 33.3           |                                       | 75.3 | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 2.65   |                    | mg/Kg wet | 3.33           |                                       | 79.4 | 50-150         |      |              |       |
| <b>LCS Dup (B182266-BSD1)</b>      |        |                    |           |                | Prepared: 07/21/17 Analyzed: 07/24/17 |      |                |      |              |       |
| CT ETPH                            | 23.8   | 10                 | mg/Kg wet | 33.3           |                                       | 71.3 | 60-120         | 5.50 | 30           |       |
| Surrogate: o-Terphenyl             | 2.62   |                    | mg/Kg wet | 3.33           |                                       | 78.5 | 50-150         |      |              |       |

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

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

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182096 - % Solids**
**Duplicate (B182096-DUP3)**
**Source: 17G0628-10**

Prepared: 07/20/17 Analyzed: 07/21/17

|          |      |  |      |  |      |  |  |       |    |  |
|----------|------|--|------|--|------|--|--|-------|----|--|
| % Solids | 81.5 |  | % Wt |  | 82.2 |  |  | 0.855 | 20 |  |
|----------|------|--|------|--|------|--|--|-------|----|--|

**Duplicate (B182096-DUP4)**
**Source: 17G0628-11**

Prepared: 07/20/17 Analyzed: 07/21/17

|          |      |  |      |  |      |  |  |      |    |  |
|----------|------|--|------|--|------|--|--|------|----|--|
| % Solids | 93.6 |  | % Wt |  | 94.9 |  |  | 1.38 | 20 |  |
|----------|------|--|------|--|------|--|--|------|----|--|

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B181837-BS1 Date(s) Analyzed: 07/20/2017 07/20/2017

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 11.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 0.0  |



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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS Dup

Lab Sample ID: B181837-BSD1 Date(s) Analyzed: 07/20/2017 07/20/2017

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

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

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 11.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.17          | 0.0  |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*
**Matrix Spike**

Lab Sample ID: B181837-MS1 Date(s) Analyzed: 07/20/2017 07/20/2017

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 | 0.20          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.20          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.18          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 0.0  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike Dup**Lab Sample ID: B181837-MSD1 Date(s) Analyzed: 07/20/2017 07/20/2017

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 | 0.20          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.20          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.18          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 0.0  |

---

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

|       |                                                                                                                                                                                                                                                            |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *     | QC result is outside of established limits.                                                                                                                                                                                                                |
| †     | Wide recovery limits established for difficult compound.                                                                                                                                                                                                   |
| ‡     | Wide RPD limits established for difficult compound.                                                                                                                                                                                                        |
| #     | Data exceeded client recommended or regulatory level                                                                                                                                                                                                       |
| ND    | Not Detected                                                                                                                                                                                                                                               |
| RL    | Reporting Limit                                                                                                                                                                                                                                            |
| DL    | Method Detection Limit                                                                                                                                                                                                                                     |
| MCL   | Maximum Contaminant Level                                                                                                                                                                                                                                  |
|       | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.                                                                                                     |
|       | No results have been blank subtracted unless specified in the case narrative section.                                                                                                                                                                      |
| MS-09 | Matrix spike recovery and/or matrix spike duplicate recovery outside of control limits. Possibility of sample matrix effects that lead to a low bias for reported result or non-homogeneous sample aliquots cannot be eliminated.                          |
| MS-22 | Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is within method specified criteria.                                                                                  |
| MS-23 | Either matrix spike or MS duplicate is outside of control limits, but the other is within limits. RPD between the two MS/MSD results is outside of the method specified criteria. Reduced precision anticipated for any reported result for this compound. |
| R-06  | Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.                                                                                                            |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| Acenaphthene                         | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                       | CT,NY,NH,ME,NC,VA |
| Anthracene                           | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                   | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                       | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                 | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Chrysene                             | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                | CT,NY,NH,ME,NC,VA |
| Fluoranthene                         | CT,NY,NH,ME,NC,VA |
| Fluorene                             | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene               | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                  | CT,NY,NH,ME,NC,VA |
| Naphthalene                          | CT,NY,NH,ME,NC,VA |
| Phenanthrene                         | CT,NY,NH,ME,NC,VA |
| Pyrene                               | CT,NY,NH,ME,NC,VA |

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

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

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



1740628

Phone: 413-525-2332

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<http://www.contestlabs.com>

Doc # 381 Rev 1\_03242017

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

## Table of Contents

Page 3 of 7

Company Name: Weston + Sampson

Address:

Phone:

Project Name: English StationProject Location: NEL HAVEN

Project Number:

Project Manager: Malcolm Beeler

Con-Test Quote Name/Number:

Invoice Recipient: Malcolm Beeler

Sampled By:

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code | PCBs Soxhlet | SPLP PCBs | ETPH | SOLP ETPH | PAHs | ARSENIC |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|--------------|-----------|------|-----------|------|---------|
| 1                    | WS-AOC12W-SO-23-1A             | 7/17/17             | 1203             |           | X    | S           | U         | X            |           |      |           |      |         |
| 2                    | WS-AOC12W-SO-23-1B             |                     | 1205             |           |      |             |           |              |           | X    |           |      | X       |
| 3                    | WS-AOC12W-SO-23-2              |                     | 1207             |           |      |             |           | X            |           |      |           |      |         |
| 4                    | WS-AOC12W-SO-23-3              |                     | 1209             |           |      |             |           | X            |           |      |           |      |         |
| 5                    | WS-AOC12W-SO-27-1              |                     | 1222             |           |      |             |           | X            |           |      |           |      |         |
| 6                    | WS-AOC12W-SO-27-2              |                     | 1224             |           |      |             |           | X            |           |      |           |      |         |
| 7                    | WS-AOC12W-SO-27-3              |                     | 1226             |           |      |             |           | X            |           |      |           |      |         |
| 8                    | WS-AOC12W-SO-10-1              |                     | 1231             |           |      |             |           | X            |           |      |           |      |         |
| 9                    | WS-AOC12W-SO-10-2              |                     | 1232             |           |      |             |           | X            |           |      |           |      |         |
| 10                   | WS-AOC12W-SO-10-3              | ✓                   | 1233             |           | ✓    | ✓           | ✓         | X            |           |      |           |      |         |

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

|                                |            |                                                                                                                                       |                                               |
|--------------------------------|------------|---------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|
| Relinquished by: (signature)   | Date/Time: | Detection Limit Requirements                                                                                                          | Special Requirements                          |
| <u>[Signature]</u> 7/17/17     | 1515       | MA                                                                                                                                    | <input type="checkbox"/> MA MCP Required      |
| Received by: (signature)       | Date/Time: |                                                                                                                                       | MCP Certification Form Required               |
| <u>[Signature]</u> 7/17/17     | 1515       |                                                                                                                                       | <input type="checkbox"/> CT RCP Required      |
| Relinquished by: (signature)   | Date/Time: | CT                                                                                                                                    | RCP Certification Form Required               |
| <u>[Signature]</u> 7/17/17     | 445        |                                                                                                                                       |                                               |
| Received by: (signature)       | Date/Time: |                                                                                                                                       | <input type="checkbox"/> MA State DW Required |
| <u>[Signature]</u> 5/8 7/17/17 | 1645       | Other:                                                                                                                                | PWSID #                                       |
| Relinquished by: (signature)   | Date/Time: | Project Entity                                                                                                                        | Other                                         |
| <u>[Signature]</u>             |            | <input type="checkbox"/> Government <input type="checkbox"/> Municipality <input type="checkbox"/> MWRA <input type="checkbox"/> WRTA | <input type="checkbox"/> Chromatogram         |
| Received by: (signature)       | Date/Time: | <input type="checkbox"/> Federal <input type="checkbox"/> 21 J <input type="checkbox"/> School                                        | <input type="checkbox"/> AIHA-LAP, LLC        |
|                                |            | <input type="checkbox"/> City <input type="checkbox"/> Brownfield <input type="checkbox"/> MBTA                                       |                                               |



NELAC and AIHA-LAP, LLC Accredited

|                                      |
|--------------------------------------|
| # of Containers                      |
| 2 Preservation Code                  |
| 3 Container Code                     |
| Dissolved Metals Samples             |
| <input type="radio"/> Field Filtered |
| <input type="radio"/> Lab to Filter  |
| Orthophosphate Samples               |
| <input type="radio"/> Field Filtered |
| <input type="radio"/> Lab to Filter  |

## 1 Matrix Codes:

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

## 2 Preservation Codes:

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

## 3 Container Codes:

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

## PCB ONLY

☒ Soxhlet



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston & SampsonAddress: 213 Dividend Rd

Phone:

Project Name: English StationProject Location: New Haven

Project Number:

Project Manager: Malcolm Beecher

Con-Test Quote Name/Number:

Invoice Recipient: Malcolm BeecherSampled By: Will Sirotnak

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code | PCBs Soxhlet | SPLP PCBs | ETPH | SPLP ETPH | PAHS | Arsenic |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|--------------|-----------|------|-----------|------|---------|
| 11                   | WS-AOC12W-SO-18-1A             | 7/17/17             | 1256             |           | X    | S           | U         | X            |           |      |           |      |         |
| 12                   | WS-AOC12W-SO-18-1B             |                     | 1257             |           |      |             |           |              |           |      |           | X    |         |
| 13                   | WS-AOC12W-SO-18-2              |                     | 1258             |           |      |             |           | X            |           |      |           |      |         |
| 14                   | WS-AOC12W-SO-18-3              |                     | 1259             |           |      |             |           | X            |           |      |           |      |         |
| 15                   | WS-AOC12W-SO-31-1              |                     | 1246             |           |      |             |           | X            |           |      |           |      |         |
| 16                   | WS-AOC12W-SO-31-2              |                     | 1248             |           |      |             |           | X            |           |      |           |      |         |
| 17                   | WS-AOC12W-SO-31-3              |                     | 1250             |           |      |             |           | X            |           |      |           |      |         |
| 18                   | WS-AOC12W-SO-32-1              |                     | 1307             |           |      |             |           | X            |           |      |           |      |         |
| 19                   | WS-AOC12W-SO-32-2              |                     | 1309             |           |      |             |           | X            |           |      |           |      |         |
| 20                   | WS-AOC12-SO-32-3               |                     | 1311             |           |      |             |           | X            |           |      |           |      |         |

Comments:

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Relinquished by: (signature)

Date/Time:

Received by: (signature)

Date/Time:

Detection Limit Requirements

MA

SI

Other:

Special Requirements

☐ MA MCP Required☐ MCP Certification Form Required☐ CT RCP Required☐ RCP Certification Form Required☐ MA State DW Required

PWSID #

Project Entity

☐

Government

☐

Municipality

☐

MWRA

☐

WRTA

☐

Federal

☐

21 J

☐

School

☐

City

☐

Brownfield

☐

MBTA

Other

☐

Chromatogram

☐

AIHA-LAP, LLC



NELAC and AIHA-LAP, LLC Accredited

# of Containers

<sup>2</sup> Preservation Code<sup>3</sup> Container Code

Dissolved Metals Samples

- ☐ Field Filtered  
☐ Lab to Filter

Orthophosphate Samples

- ☐ Field Filtered  
☐ Lab to Filter

<sup>1</sup> Matrix Codes:

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

<sup>2</sup> 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)

<sup>3</sup> Container Codes:

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

PCB ONLY

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39 Spruce St.  
East Longmeadow, MA. 01028  
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www.contestlabs.com



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

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

Client Weston & Sampson  
Received By JM Date 7/17/17 Time 1645  
How were the samples received? In Cooler T No Cooler        On Ice T No Ice         
Direct from Sampling        Ambient        Melted Ice         
Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 5.8  
By Blank #        Actual Temp -         
Was Custody Seal Intact? N/A Were Samples Tampered with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T  
Are there broken/leaking/loose caps on any samples? F  
Is COC in ink/ Legible? T Were samples received within holding time? T  
Did COC include all Client T Analysis T Sampler Name T  
pertinent Information? Project T ID's T Collection Dates/Times T  
Are Sample labels filled out and legible? T  
Are there Lab to Filters? N/A Who was notified?         
Are there Rushes? N/A Who was notified?         
Are there Short Holds? N/A Who was notified?         
Is there enough Volume? T  
Is there Headspace where applicable? N/A MS/MSD? N/A  
Proper Media/Containers Used? T Is splitting samples required? N/A  
Were trip blanks received? N/A On COC? N/A  
Do all samples have the proper pH? N/A Acid        Base       

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

#### Unused Media

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

Comments:

D:\HPCHEM\1\DATA\A072517\A0725042.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/25/17  
 Data File Name A0725042.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | %D +/- 20 |
|-------------|----------|-----------------|------------------|-----------|
| c - 9       | 1.08     | 469269          | 528199           | -11       |
| c - 10      | 1.43     | 477954          | 528199           | -10       |
| c - 12      | 2.17     | 431449          | 528199           | -18       |
| c - 14      | 2.84     | 526968          | 528199           | 0         |
| c - 16      | 3.44     | 546472          | 528199           | 3         |
| c - 18      | 4.02     | 544933          | 528199           | 3         |
| o-Terphenyl | 4.31     | 633988          | 528199           |           |
| c - 20      | 4.64     | 558949          | 528199           | 6         |
| c - 22      | 5.16     | 569101          | 528199           | 8         |
| c - 24      | 5.60     | 535615          | 528199           | 1         |
| c - 26      | 6.00     | 566663          | 528199           | 7         |
| c - 28      | 6.36     | 560787          | 528199           | 6         |
| c - 30      | 6.70     | 552619          | 528199           | 5         |
| c - 32      | 7.01     | 532601          | 528199           | 1         |
| c - 34      | 7.30     | 527781          | 528199           | 0         |
| c - 36      | 7.59     | 521829          | 528199           | -1        |

\* One compound allowed %D &lt;= 50%

**Samples**

1G0678-01  
 17G0678-02  
 17G0938-01  
 17G0803-01  
 17G0639-01  
 17G0639-02  
 17G0754-01  
 17G0780-01  
 17G0784-16  
 17G0784-17  
 17G0784-18  
 17G0784-20

D:\HPCHEM\1\DATA\A072517\A0725096.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
 Data File Name A0725096.D  
 Sample Name ETPH 1500  
 Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | %D +/- 20 |
|-------------|----------|-----------------|------------------|-----------|
| c - 9       | 1.08     | 434667          | 494774           | -12       |
| c - 10      | 1.43     | 431422          | 494774           | -13       |
| c - 12      | 2.17     | 456436          | 494774           | -8        |
| c - 14      | 2.84     | 474091          | 494774           | -4        |
| c - 16      | 3.44     | 492084          | 494774           | -1        |
| c - 18      | 4.02     | 491737          | 494774           | -1        |
| o-Terphenyl | 4.31     | 572769          | 494774           |           |
| c - 20      | 4.64     | 506573          | 494774           | 2         |
| c - 22      | 5.16     | 520754          | 494774           | 5         |
| c - 24      | 5.60     | 492789          | 494774           | 0         |
| c - 26      | 6.00     | 528658          | 494774           | 7         |
| c - 28      | 6.36     | 527791          | 494774           | 7         |
| c - 30      | 6.70     | 531746          | 494774           | 7         |
| c - 32      | 7.01     | 517946          | 494774           | 5         |
| c - 34      | 7.30     | 513504          | 494774           | 4         |
| c - 36      | 7.58     | 501410          | 494774           | 1         |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0780-02  
 17G0754-02  
 17G0754-03  
 17G0754-04  
 17G0754-05  
 17G0784-01  
 17G0784-02  
 17G0784-05  
 17G0784-06  
 17G0784-07  
 17G0784-08  
 17G0784-09  
 17G0784-10  
 17G0784-11  
 17G0784-12  
 17G0784-13

D:\HPCHEM\1\DATA\A072517.SEC\A0725043.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/25/17  
Data File Name A0725043.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 529066          | 555179           | -5         |
| c - 10      | 1.49     | 534758          | 555179           | -4         |
| c - 12      | 2.22     | 555660          | 555179           | 0          |
| c - 14      | 2.88     | 567316          | 555179           | 2          |
| c - 16      | 3.48     | 576001          | 555179           | 4          |
| c - 18      | 4.06     | 569798          | 555179           | 3          |
| o-Terphenyl | 4.35     | 654599          | 555179           |            |
| c - 20      | 4.67     | 578039          | 555179           | 4          |
| c - 22      | 5.18     | 584712          | 555179           | 5          |
| c - 24      | 5.62     | 543245          | 555179           | -2         |
| c - 26      | 6.01     | 569376          | 555179           | 3          |
| c - 28      | 6.37     | 558962          | 555179           | 1          |
| c - 30      | 6.70     | 552601          | 555179           | 0          |
| c - 32      | 7.01     | 535992          | 555179           | -3         |
| c - 34      | 7.30     | 536320          | 555179           | -3         |
| c - 36      | 7.58     | 535844          | 555179           | -3         |

\* One compound allowed %D &lt;= 50%

## Samples

17G0755-01  
17G0626-08@5X  
17G0786-04  
17G0786-05  
17G0786-06  
17G0786-08

D:\HPCHEM\1\DATA\A072517.SEC\A0725097.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
Data File Name A0725097.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 423007          | 448464           | -6         |
| c - 10      | 1.49     | 424085          | 448464           | -5         |
| c - 12      | 2.22     | 443558          | 448464           | -1         |
| c - 14      | 2.89     | 454055          | 448464           | 1          |
| c - 16      | 3.48     | 463539          | 448464           | 3          |
| c - 18      | 4.06     | 457315          | 448464           | 2          |
| o-Terphenyl | 4.36     | 523389          | 448464           |            |
| c - 20      | 4.67     | 464553          | 448464           | 4          |
| c - 22      | 5.18     | 469869          | 448464           | 5          |
| c - 24      | 5.62     | 437856          | 448464           | -2         |
| c - 26      | 6.01     | 460754          | 448464           | 3          |
| c - 28      | 6.37     | 453390          | 448464           | 1          |
| c - 30      | 6.70     | 451107          | 448464           | 1          |
| c - 32      | 7.01     | 439832          | 448464           | -2         |
| c - 34      | 7.30     | 441689          | 448464           | -2         |
| c - 36      | 7.58     | 442356          | 448464           | -1         |

\* One compound allowed %D &lt;= 50%

**Samples**

17G0786-12  
17G0785-01  
17G0785-02  
17G0785-03  
17G0785-04  
17G0785-07  
17G0785-13  
17G0785-14

D:\HPCHEM\1\DATA\A072517.SEC\A0725153.D

**CT ETPH DISCRIMINATION CHECK**

Date Acquired 7/26/17  
Data File Name A0725153.D  
Sample Name ETPH 1500  
Instrument Name 5890DFID

| Compound    | Ret Time | Target Response | Average Response | *%D +/- 20 |
|-------------|----------|-----------------|------------------|------------|
| c - 9       | 1.14     | 459390          | 476901           | -4         |
| c - 10      | 1.49     | 457897          | 476901           | -4         |
| c - 12      | 2.22     | 480908          | 476901           | 1          |
| c - 14      | 2.89     | 485375          | 476901           | 2          |
| c - 16      | 3.48     | 493163          | 476901           | 3          |
| c - 18      | 4.06     | 484784          | 476901           | 2          |
| o-Terphenyl | 4.36     | 554345          | 476901           |            |
| c - 20      | 4.67     | 492008          | 476901           | 3          |
| c - 22      | 5.18     | 497228          | 476901           | 4          |
| c - 24      | 5.62     | 462983          | 476901           | -3         |
| c - 26      | 6.01     | 487104          | 476901           | 2          |
| c - 28      | 6.37     | 479218          | 476901           | 0          |
| c - 30      | 6.70     | 476761          | 476901           | 0          |
| c - 32      | 7.01     | 464381          | 476901           | -3         |
| c - 34      | 7.30     | 465959          | 476901           | -2         |
| c - 36      | 7.58     | 466352          | 476901           | -2         |

\* One compound allowed %D &lt;= 50%

Samples

17G0628-02



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

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

**Client:** Weston & Sampson

**Project Location:** New Haven, CT

**Project Number:** 17G0628

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

17G0628-01 thru 17G0628-20

07/17/2017

**List RCP Methods Used:**

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

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

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

This form may not be altered and all questions must be answered.

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

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 07/26/17
**Name of Laboratory:** Con-Test Analytical Laboratory

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

July 26, 2017

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

Project Location: New Haven, CT  
Client Job Number:  
Project Number: [none]  
Laboratory Work Order Number: 17G0629

Enclosed are results of analyses for samples received by the laboratory on July 17, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

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

James M. Georgantas  
Project Manager



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

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

REPORT DATE: 7/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0629

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

PROJECT LOCATION: New Haven, CT

| FIELD SAMPLE #     | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                     | SUB LAB |
|--------------------|------------|--------|--------------------|--------------------------|---------|
| WS-AOC12W-SO-21-1  | 17G0629-01 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-21-2  | 17G0629-02 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-21-3  | 17G0629-03 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-25-1  | 17G0629-04 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-25-2  | 17G0629-05 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-25-3  | 17G0629-06 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-28-1A | 17G0629-07 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-28-1B | 17G0629-08 | Soil   |                    | SM 2540G<br>SW-846 8270D |         |
| WS-AOC12W-SO-28-2  | 17G0629-09 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-28-3  | 17G0629-10 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-24-1  | 17G0629-11 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-24-2  | 17G0629-12 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-24-3  | 17G0629-13 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-20-1  | 17G0629-14 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-20-2  | 17G0629-15 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-20-3  | 17G0629-16 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-29-1  | 17G0629-17 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-29-2  | 17G0629-18 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-29-3  | 17G0629-19 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-33-1A | 17G0629-20 | Soil   |                    | SM 2540G<br>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: 7/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: [none]

**ANALYTICAL SUMMARY**

WORK ORDER NUMBER: 17G0629

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

PROJECT LOCATION: New Haven, CT

| FIELD SAMPLE #     | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                     | SUB LAB |
|--------------------|------------|--------|--------------------|------------------------------------------|---------|
| WS-AOC12W-SO-33-1B | 17G0629-21 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D |         |
| WS-AOC12W-SO-Dup-1 | 17G0629-22 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-Dup-2 | 17G0629-23 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-Dup-3 | 17G0629-24 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-33-2  | 17G0629-25 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-33-3  | 17G0629-26 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |

**CASE NARRATIVE SUMMARY**

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

For method 8270, only PAHs were requested and reported.

For method 6010, only As was requested and reported.

**CTDEP ETPH****Qualifications:****S-01**

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

**Analyte & Samples(s) Qualified:****o-Terphenyl**

17G0629-21[WS-AOC12W-SO-33-1B]

**SW-846 8082A****Qualifications:****R-06**

Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.

**Analyte & Samples(s) Qualified:****Aroclor-1016**

17G0629-04[WS-AOC12W-SO-25-1], B182066-MSD1

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

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

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-1

Sampled: 7/17/2017 13:14

Sample ID: 17G0629-01

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:17      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 67.8       | 30-150          |           |          |           |              |               | 7/21/17 16:17      |         |
| Decachlorobiphenyl [2]   | 75.8       | 30-150          |           |          |           |              |               | 7/21/17 16:17      |         |
| Tetrachloro-m-xylene [1] | 54.0       | 30-150          |           |          |           |              |               | 7/21/17 16:17      |         |
| Tetrachloro-m-xylene [2] | 64.1       | 30-150          |           |          |           |              |               | 7/21/17 16:17      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-1

Sampled: 7/17/2017 13:14

Sample ID: 17G0629-01

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-2

Sampled: 7/17/2017 13:15

Sample ID: 17G0629-02

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:34      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 85.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 88.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 69.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 76.7       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-2

Sampled: 7/17/2017 13:15

Sample ID: 17G0629-02

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-3

Sampled: 7/17/2017 13:16

Sample ID: 17G0629-03

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 | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 16:52      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.1       | 30-150          |           |          |           |              |               | 7/21/17 16:52      |         |
| Decachlorobiphenyl [2]   | 91.3       | 30-150          |           |          |           |              |               | 7/21/17 16:52      |         |
| Tetrachloro-m-xylene [1] | 65.4       | 30-150          |           |          |           |              |               | 7/21/17 16:52      |         |
| Tetrachloro-m-xylene [2] | 70.6       | 30-150          |           |          |           |              |               | 7/21/17 16:52      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-21-3

Sampled: 7/17/2017 13:16

Sample ID: 17G0629-03

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 72.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-1

Sampled: 7/17/2017 13:32

Sample ID: 17G0629-04

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         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:09      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 93.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 92.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 69.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 75.4       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-1

Sampled: 7/17/2017 13:32

Sample ID: 17G0629-04

Sample Matrix: Soil

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

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-2

Sampled: 7/17/2017 13:33

Sample ID: 17G0629-05

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:26      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 73.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 58.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 64.4       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-2

Sampled: 7/17/2017 13:33

Sample ID: 17G0629-05

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.8    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-3

Sampled: 7/17/2017 13:34

Sample ID: 17G0629-06

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         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 17:44      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 95.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 95.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 74.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.3       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-25-3

Sampled: 7/17/2017 13:34

Sample ID: 17G0629-06

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 65.1    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-1A

Sampled: 7/17/2017 13:38

Sample ID: 17G0629-07

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         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:01      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 97.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 73.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 78.8       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-1A

Sampled: 7/17/2017 13:38

Sample ID: 17G0629-07

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 96.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-1B

Sampled: 7/17/2017 13:40

Sample ID: 17G0629-08

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL   | Units           | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|------|-----------------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Acenaphthylene         | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Anthracene             | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Benzo(a)anthracene     | 0.48       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Benzo(a)pyrene         | 0.27       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Benzo(b)fluoranthene   | 0.48       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Benzo(g,h,i)perylene   | 0.25       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Chrysene               | 0.94       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Fluoranthene           | 0.77       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Fluorene               | ND         | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Indeno(1,2,3-cd)pyrene | 0.23       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| 2-Methylnaphthalene    | 0.81       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Naphthalene            | 0.39       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Phenanthrene           | 1.6        | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Pyrene                 | 0.83       | 0.19 | mg/Kg dry       | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:23      | BGL     |
| Surrogates             | % Recovery |      | Recovery Limits |          | Flag/Qual |              |               |                    |         |
| Nitrobenzene-d5        | 71.7       |      | 30-130          |          |           |              | 7/24/17 16:23 |                    |         |
| 2-Fluorobiphenyl       | 74.5       |      | 30-130          |          |           |              | 7/24/17 16:23 |                    |         |
| p-Terphenyl-d14        | 97.3       |      | 30-130          |          |           |              | 7/24/17 16:23 |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-1B

Sampled: 7/17/2017 13:40

Sample ID: 17G0629-08

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-2

Sampled: 7/17/2017 13:42

Sample ID: 17G0629-09

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 18:18      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 89.0       | 30-150          |           |          |           |              |               | 7/21/17 18:18      |         |
| Decachlorobiphenyl [2]   | 89.2       | 30-150          |           |          |           |              |               | 7/21/17 18:18      |         |
| Tetrachloro-m-xylene [1] | 66.7       | 30-150          |           |          |           |              |               | 7/21/17 18:18      |         |
| Tetrachloro-m-xylene [2] | 72.4       | 30-150          |           |          |           |              |               | 7/21/17 18:18      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-2

Sampled: 7/17/2017 13:42

Sample ID: 17G0629-09

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-3

Sampled: 7/17/2017 13:44

Sample ID: 17G0629-10

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 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:23      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.7       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 91.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 64.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 69.6       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-28-3

Sampled: 7/17/2017 13:44

Sample ID: 17G0629-10

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 77.8    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-1

Sampled: 7/17/2017 13:46

Sample ID: 17G0629-11

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         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:40      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 89.5       | 30-150          |           |          |           |              |               | 7/21/17 19:40      |         |
| Decachlorobiphenyl [2]   | 88.9       | 30-150          |           |          |           |              |               | 7/21/17 19:40      |         |
| Tetrachloro-m-xylene [1] | 67.9       | 30-150          |           |          |           |              |               | 7/21/17 19:40      |         |
| Tetrachloro-m-xylene [2] | 73.6       | 30-150          |           |          |           |              |               | 7/21/17 19:40      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-1

Sampled: 7/17/2017 13:46

Sample ID: 17G0629-11

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.2    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-2

Sampled: 7/17/2017 13:47

Sample ID: 17G0629-12

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 19:57      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 93.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 90.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 70.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 75.9       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-2

Sampled: 7/17/2017 13:47

Sample ID: 17G0629-12

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-3

Sampled: 7/17/2017 13:49

Sample ID: 17G0629-13

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         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:15      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 94.7       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 98.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 73.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 82.1       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-24-3

Sampled: 7/17/2017 13:49

Sample ID: 17G0629-13

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-1

Sampled: 7/17/2017 13:56

Sample ID: 17G0629-14

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         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:32      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 99.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 99.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 74.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.9       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-1

Sampled: 7/17/2017 13:56

Sample ID: 17G0629-14

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.9    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-2

Sampled: 7/17/2017 13:58

Sample ID: 17G0629-15

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 | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 20:49      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 102        | 30-150          |           |          |           |              |               | 7/21/17 20:49      |         |
| Decachlorobiphenyl [2]   | 97.5       | 30-150          |           |          |           |              |               | 7/21/17 20:49      |         |
| Tetrachloro-m-xylene [1] | 82.8       | 30-150          |           |          |           |              |               | 7/21/17 20:49      |         |
| Tetrachloro-m-xylene [2] | 88.4       | 30-150          |           |          |           |              |               | 7/21/17 20:49      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-2

Sampled: 7/17/2017 13:58

Sample ID: 17G0629-15

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.8    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-3

Sampled: 7/17/2017 14:00

Sample ID: 17G0629-16

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 | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:06      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 103        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 101        | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 78.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 84.0       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-20-3

Sampled: 7/17/2017 14:00

Sample ID: 17G0629-16

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 77.0    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-1

Sampled: 7/17/2017 14:01

Sample ID: 17G0629-17

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 | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:24      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 89.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 91.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 72.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 79.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-1

Sampled: 7/17/2017 14:01

Sample ID: 17G0629-17

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.5    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-2

Sampled: 7/17/2017 14:02

Sample ID: 17G0629-18

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 | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:41      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 85.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 86.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 70.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 76.9       | 30-150          |           |          |           |              |               |                    |         |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-2

Sampled: 7/17/2017 14:02

Sample ID: 17G0629-18

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.4    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-3

Sampled: 7/17/2017 14:03

Sample ID: 17G0629-19

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 21:58      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 103        | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 97.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 75.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 80.6       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-29-3

Sampled: 7/17/2017 14:03

Sample ID: 17G0629-19

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 79.6    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1A

Sampled: 7/17/2017 14:12

Sample ID: 17G0629-20

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:16      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 96.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 93.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 69.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 75.1       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1A

Sampled: 7/17/2017 14:12

Sample ID: 17G0629-20

Sample Matrix: Soil

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

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B

Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

#### Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL   | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|------|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 6600       | 1100 | mg/Kg dry       | 100      |           | CTDEP ETPH | 7/21/17       | 7/26/17 13:33      | SCS     |
| Surrogates  | % Recovery |      | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |      | 50-150          |          | S-01      |            |               | 7/26/17 13:33      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B

Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

## Metals Analyses (Total)

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-1B

Sampled: 7/17/2017 14:13

Sample ID: 17G0629-21

Sample Matrix: Soil

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

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



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-22

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1221 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1232 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1242 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1248 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1254 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1260 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1262 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Aroclor-1268 [2]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 22:33      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 89.8       | 30-150          |           |          |           |              |               | 7/21/17 22:33      |         |
| Decachlorobiphenyl [2]   | 89.8       | 30-150          |           |          |           |              |               | 7/21/17 22:33      |         |
| Tetrachloro-m-xylene [1] | 70.6       | 30-150          |           |          |           |              |               | 7/21/17 22:33      |         |
| Tetrachloro-m-xylene [2] | 76.4       | 30-150          |           |          |           |              |               | 7/21/17 22:33      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-22

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 91.1    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-23

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:10      | PJG     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 82.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 88.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 81.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 84.0       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-23

Sample Matrix: Soil

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

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-24

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:22      | PJG     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 75.9       | 30-150          |           |          |           |              |               | 7/21/17 12:22      |         |
| Decachlorobiphenyl [2]   | 83.3       | 30-150          |           |          |           |              |               | 7/21/17 12:22      |         |
| Tetrachloro-m-xylene [1] | 77.6       | 30-150          |           |          |           |              |               | 7/21/17 12:22      |         |
| Tetrachloro-m-xylene [2] | 79.1       | 30-150          |           |          |           |              |               | 7/21/17 12:22      |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

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

Sampled: 7/17/2017 00:00

Sample ID: 17G0629-24

Sample Matrix: Soil

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

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

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-2

Sampled: 7/17/2017 14:14

Sample ID: 17G0629-25

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:35      | PJG     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 59.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 64.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 59.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 61.7       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-2

Sampled: 7/17/2017 14:14

Sample ID: 17G0629-25

Sample Matrix: Soil

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

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.3    |    | % Wt  | 1        |           | SM 2540G | 7/20/17          | 7/21/17 7:45          | MRL     |



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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-3

Sampled: 7/17/2017 14:15

Sample ID: 17G0629-26

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1221 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1232 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1242 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1248 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1254 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1260 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1262 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Aroclor-1268 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/19/17       | 7/21/17 12:48      | PJG     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 84.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 90.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 80.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 82.5       | 30-150          |           |          |           |              |               |                    |         |

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

Project Location: New Haven, CT

Sample Description:

Work Order: 17G0629

Date Received: 7/17/2017

Field Sample #: WS-AOC12W-SO-33-3

Sampled: 7/17/2017 14:15

Sample ID: 17G0629-26

Sample Matrix: Soil

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

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

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

### Sample Extraction Data

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

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

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

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

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

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

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

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

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

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

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

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

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

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182275 - SW-846 3546**
**Blank (B182275-BLK1)**

Prepared: 07/21/17 Analyzed: 07/24/17

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Acenaphthylene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Anthracene                  | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)anthracene          | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)pyrene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(b)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(g,h,i)perylene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(k)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Chrysene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Dibenz(a,h)anthracene       | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluoranthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluorene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Indeno(1,2,3-cd)pyrene      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| 2-Methylnaphthalene         | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Naphthalene                 | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Phenanthrene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Pyrene                      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.42 |      | mg/Kg wet | 3.33 |  | 72.5 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.43 |      | mg/Kg wet | 3.33 |  | 72.8 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.94 |      | mg/Kg wet | 3.33 |  | 88.3 | 30-130 |  |  |  |

**LCS (B182275-BS1)**

Prepared: 07/21/17 Analyzed: 07/24/17

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | 1.14 | 0.17 | mg/Kg wet | 1.67 |  | 68.7 | 40-140 |  |  |  |
| Acenaphthylene              | 1.11 | 0.17 | mg/Kg wet | 1.67 |  | 66.7 | 40-140 |  |  |  |
| Anthracene                  | 1.22 | 0.17 | mg/Kg wet | 1.67 |  | 73.1 | 40-140 |  |  |  |
| Benzo(a)anthracene          | 1.24 | 0.17 | mg/Kg wet | 1.67 |  | 74.2 | 40-140 |  |  |  |
| Benzo(a)pyrene              | 1.25 | 0.17 | mg/Kg wet | 1.67 |  | 75.1 | 40-140 |  |  |  |
| Benzo(b)fluoranthene        | 1.15 | 0.17 | mg/Kg wet | 1.67 |  | 69.1 | 40-140 |  |  |  |
| Benzo(g,h,i)perylene        | 1.50 | 0.17 | mg/Kg wet | 1.67 |  | 90.0 | 40-140 |  |  |  |
| Benzo(k)fluoranthene        | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.9 | 40-140 |  |  |  |
| Chrysene                    | 1.22 | 0.17 | mg/Kg wet | 1.67 |  | 73.0 | 40-140 |  |  |  |
| Dibenz(a,h)anthracene       | 1.41 | 0.17 | mg/Kg wet | 1.67 |  | 84.5 | 40-140 |  |  |  |
| Fluoranthene                | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.9 | 40-140 |  |  |  |
| Fluorene                    | 1.16 | 0.17 | mg/Kg wet | 1.67 |  | 69.7 | 40-140 |  |  |  |
| Indeno(1,2,3-cd)pyrene      | 1.40 | 0.17 | mg/Kg wet | 1.67 |  | 84.0 | 40-140 |  |  |  |
| 2-Methylnaphthalene         | 1.12 | 0.17 | mg/Kg wet | 1.67 |  | 67.4 | 40-140 |  |  |  |
| Naphthalene                 | 1.03 | 0.17 | mg/Kg wet | 1.67 |  | 61.8 | 40-140 |  |  |  |
| Phenanthrene                | 1.23 | 0.17 | mg/Kg wet | 1.67 |  | 73.7 | 40-140 |  |  |  |
| Pyrene                      | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.8 | 40-140 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.44 |      | mg/Kg wet | 3.33 |  | 73.1 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.66 |      | mg/Kg wet | 3.33 |  | 79.9 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.80 |      | mg/Kg wet | 3.33 |  | 84.0 | 30-130 |  |  |  |

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

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182275 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B182275-BSD1)</b>      |        |                    |           |                | Prepared: 07/21/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Acenaphthene                       | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.7 | 40-140         | 10.7 | 30           |       |
| Acenaphthylene                     | 1.00   | 0.17               | mg/Kg wet | 1.67           |                                       | 60.2 | 40-140         | 10.2 | 30           |       |
| Anthracene                         | 1.06   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.9 | 40-140         | 13.4 | 30           |       |
| Benzo(a)anthracene                 | 1.09   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.6 | 40-140         | 12.4 | 30           |       |
| Benzo(a)pyrene                     | 1.09   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.5 | 40-140         | 13.7 | 30           |       |
| Benzo(b)fluoranthene               | 1.02   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.1 | 40-140         | 12.3 | 30           |       |
| Benzo(g,h,i)perylene               | 1.27   | 0.17               | mg/Kg wet | 1.67           |                                       | 76.4 | 40-140         | 16.3 | 30           |       |
| Benzo(k)fluoranthene               | 1.02   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.2 | 40-140         | 14.7 | 30           |       |
| Chrysene                           | 1.08   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.0 | 40-140         | 11.7 | 30           |       |
| Dibenz(a,h)anthracene              | 1.21   | 0.17               | mg/Kg wet | 1.67           |                                       | 72.7 | 40-140         | 15.0 | 30           |       |
| Fluoranthene                       | 1.05   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.0 | 40-140         | 11.9 | 30           |       |
| Fluorene                           | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.8 | 40-140         | 11.9 | 30           |       |
| Indeno(1,2,3-cd)pyrene             | 1.18   | 0.17               | mg/Kg wet | 1.67           |                                       | 70.7 | 40-140         | 17.3 | 30           |       |
| 2-Methylnaphthalene                | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.7 | 40-140         | 8.86 | 30           |       |
| Naphthalene                        | 0.990  | 0.17               | mg/Kg wet | 1.67           |                                       | 59.4 | 40-140         | 4.03 | 30           |       |
| Phenanthrene                       | 1.07   | 0.17               | mg/Kg wet | 1.67           |                                       | 64.0 | 40-140         | 14.0 | 30           |       |
| Pyrene                             | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.9 | 40-140         | 13.3 | 30           |       |
| Surrogate: Nitrobenzene-d5         | 2.28   |                    | mg/Kg wet | 3.33           |                                       | 68.4 | 30-130         |      |              |       |
| Surrogate: 2-Fluorobiphenyl        | 2.36   |                    | mg/Kg wet | 3.33           |                                       | 70.8 | 30-130         |      |              |       |
| Surrogate: p-Terphenyl-d14         | 2.43   |                    | mg/Kg wet | 3.33           |                                       | 72.8 | 30-130         |      |              |       |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B182065 - SW-846 3540C**
**Blank (B182065-BLK1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1016 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.158 |       | mg/Kg wet | 0.200 |  | 79.2 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.172 |       | mg/Kg wet | 0.200 |  | 86.2 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.158 |       | mg/Kg wet | 0.200 |  | 79.0 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.164 |       | mg/Kg wet | 0.200 |  | 82.1 | 30-150 |  |  |  |

**LCS (B182065-BS1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 79.6 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 82.2 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.6 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 74.2 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.174 |       | mg/Kg wet | 0.200 |  | 87.0 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.191 |       | mg/Kg wet | 0.200 |  | 95.6 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.167 |       | mg/Kg wet | 0.200 |  | 83.7 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.173 |       | mg/Kg wet | 0.200 |  | 86.6 | 30-150 |  |  |  |

**LCS Dup (B182065-BSD1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 74.6 | 40-140 | 6.47 | 30 |  |
| Aroclor-1016 [2C]                    | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 75.7 | 40-140 | 8.25 | 30 |  |
| Aroclor-1260                         | 0.13  | 0.020 | mg/Kg wet | 0.200 |  | 65.9 | 40-140 | 11.0 | 30 |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.020 | mg/Kg wet | 0.200 |  | 68.2 | 40-140 | 8.44 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.156 |       | mg/Kg wet | 0.200 |  | 78.2 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.170 |       | mg/Kg wet | 0.200 |  | 85.0 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.162 |       | mg/Kg wet | 0.200 |  | 81.2 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.168 |       | mg/Kg wet | 0.200 |  | 84.2 | 30-150 |      |    |  |

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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B182066 - SW-846 3540C**
**Blank (B182066-BLK1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1016 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.215 |       | mg/Kg wet | 0.200 |  | 107  | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.207 |       | mg/Kg wet | 0.200 |  | 104  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.157 |       | mg/Kg wet | 0.200 |  | 78.5 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.163 |       | mg/Kg wet | 0.200 |  | 81.3 | 30-150 |  |  |  |

**LCS (B182066-BS1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.1 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 77.5 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 72.9 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.3 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.210 |       | mg/Kg wet | 0.200 |  | 105  | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.200 |       | mg/Kg wet | 0.200 |  | 100  | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.156 |       | mg/Kg wet | 0.200 |  | 77.9 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.161 |       | mg/Kg wet | 0.200 |  | 80.5 | 30-150 |  |  |  |

**LCS Dup (B182066-BSD1)**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 74.6 | 40-140 | 2.05 | 30 |  |
| Aroclor-1016 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 78.3 | 40-140 | 1.08 | 30 |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.8 | 40-140 | 1.29 | 30 |  |
| Aroclor-1260 [2C]                    | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 74.4 | 40-140 | 1.48 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.215 |       | mg/Kg wet | 0.200 |  | 108  | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.205 |       | mg/Kg wet | 0.200 |  | 102  | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.156 |       | mg/Kg wet | 0.200 |  | 77.8 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.162 |       | mg/Kg wet | 0.200 |  | 80.8 | 30-150 |      |    |  |



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

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B182066 - SW-846 3540C**
**Matrix Spike (B182066-MS1)**
**Source: 17G0629-04**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |      |           |       |    |      |        |  |  |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|--|--|--|
| Aroclor-1016                         | 0.11  | 0.11 | mg/Kg dry | 0.215 | ND | 51.7 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.13  | 0.11 | mg/Kg dry | 0.215 | ND | 58.3 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.11  | 0.11 | mg/Kg dry | 0.215 | ND | 51.0 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.11  | 0.11 | mg/Kg dry | 0.215 | ND | 52.1 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.140 |      | mg/Kg dry | 0.215 |    | 65.1 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.143 |      | mg/Kg dry | 0.215 |    | 66.8 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.115 |      | mg/Kg dry | 0.215 |    | 53.7 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.122 |      | mg/Kg dry | 0.215 |    | 56.7 | 30-150 |  |  |  |

**Matrix Spike Dup (B182066-MSD1)**
**Source: 17G0629-04**

Prepared: 07/19/17 Analyzed: 07/21/17

|                                      |       |      |           |       |    |      |        |        |    |      |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|--------|----|------|
| Aroclor-1016                         | 0.19  | 0.11 | mg/Kg dry | 0.215 | ND | 90.9 | 40-140 | 54.9 * | 50 | R-06 |
| Aroclor-1016 [2C]                    | 0.18  | 0.11 | mg/Kg dry | 0.215 | ND | 83.0 | 40-140 | 35.1   | 50 |      |
| Aroclor-1260                         | 0.15  | 0.11 | mg/Kg dry | 0.215 | ND | 71.4 | 40-140 | 33.4   | 50 |      |
| Aroclor-1260 [2C]                    | 0.16  | 0.11 | mg/Kg dry | 0.215 | ND | 73.5 | 40-140 | 34.0   | 50 |      |
| Surrogate: Decachlorobiphenyl        | 0.190 |      | mg/Kg dry | 0.215 |    | 88.4 | 30-150 |        |    |      |
| Surrogate: Decachlorobiphenyl [2C]   | 0.187 |      | mg/Kg dry | 0.215 |    | 87.3 | 30-150 |        |    |      |
| Surrogate: Tetrachloro-m-xylene      | 0.165 |      | mg/Kg dry | 0.215 |    | 77.0 | 30-150 |        |    |      |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.173 |      | mg/Kg dry | 0.215 |    | 80.4 | 30-150 |        |    |      |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B182266 - SW-846 3546</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B182266-BLK1)</b>        |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                                       |                  |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 2.93   |                    | mg/Kg wet | 3.33                                  |                  | 87.9 | 50-150         |      |              |       |
| <b>LCS (B182266-BS1)</b>           |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | 25.1   | 10                 | mg/Kg wet | 33.3                                  |                  | 75.3 | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 2.65   |                    | mg/Kg wet | 3.33                                  |                  | 79.4 | 50-150         |      |              |       |
| <b>LCS Dup (B182266-BSD1)</b>      |        |                    |           | Prepared: 07/21/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| CT ETPH                            | 23.8   | 10                 | mg/Kg wet | 33.3                                  |                  | 71.3 | 60-120         | 5.50 | 30           |       |
| Surrogate: o-Terphenyl             | 2.62   |                    | mg/Kg wet | 3.33                                  |                  | 78.5 | 50-150         |      |              |       |

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

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182155 - SW-846 3050B**
**Blank (B182155-BLK1)**

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic ND 2.5 mg/Kg wet

**LCS (B182155-BS1)**

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic 52.4 4.9 mg/Kg wet 57.0 92.0 77.8-122.1

**LCS Dup (B182155-BSD1)**

Prepared: 07/20/17 Analyzed: 07/24/17

Arsenic 54.4 5.0 mg/Kg wet 57.0 95.4 77.8-122.1 3.72 30

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

| Analyte                         | Result                    | Reporting<br>Limit | Units | Spike<br>Level                        | Source<br>Result | %REC<br>Limits | RPD<br>Limit | Notes |
|---------------------------------|---------------------------|--------------------|-------|---------------------------------------|------------------|----------------|--------------|-------|
| <b>Batch B182096 - % Solids</b> |                           |                    |       |                                       |                  |                |              |       |
| <b>Duplicate (B182096-DUP5)</b> | <b>Source: 17G0629-03</b> |                    |       | Prepared: 07/20/17 Analyzed: 07/21/17 |                  |                |              |       |
| % Solids                        | 71.8                      |                    | % Wt  |                                       | 72.3             |                | 0.694        | 20    |
| <b>Duplicate (B182096-DUP6)</b> | <b>Source: 17G0629-04</b> |                    |       | Prepared: 07/20/17 Analyzed: 07/21/17 |                  |                |              |       |
| % Solids                        | 94.8                      |                    | % Wt  |                                       | 93.2             |                | 1.70         | 20    |
| <b>Duplicate (B182096-DUP7)</b> | <b>Source: 17G0629-20</b> |                    |       | Prepared: 07/20/17 Analyzed: 07/21/17 |                  |                |              |       |
| % Solids                        | 92.3                      |                    | % Wt  |                                       | 93.2             |                | 0.970        | 20    |

---

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|      |                                                                                                                                                                                          |
|------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *    | QC result is outside of established limits.                                                                                                                                              |
| †    | Wide recovery limits established for difficult compound.                                                                                                                                 |
| ‡    | Wide RPD limits established for difficult compound.                                                                                                                                      |
| #    | Data exceeded client recommended or regulatory level                                                                                                                                     |
| ND   | Not Detected                                                                                                                                                                             |
| RL   | Reporting Limit                                                                                                                                                                          |
| DL   | Method Detection Limit                                                                                                                                                                   |
| MCL  | Maximum Contaminant Level                                                                                                                                                                |
|      | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.                                   |
|      | No results have been blank subtracted unless specified in the case narrative section.                                                                                                    |
| R-06 | Matrix spike duplicate RPD is outside of control limits. Reduced precision is anticipated for reported result for this compound in this sample.                                          |
| S-01 | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| Acenaphthene                         | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                       | CT,NY,NH,ME,NC,VA |
| Anthracene                           | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                   | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                       | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                 | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Chrysene                             | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                | CT,NY,NH,ME,NC,VA |
| Fluoranthene                         | CT,NY,NH,ME,NC,VA |
| Fluorene                             | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene               | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                  | CT,NY,NH,ME,NC,VA |
| Naphthalene                          | CT,NY,NH,ME,NC,VA |
| Phenanthrene                         | CT,NY,NH,ME,NC,VA |
| Pyrene                               | CT,NY,NH,ME,NC,VA |

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code  | Description                                  | Number        | Expires    |
|-------|----------------------------------------------|---------------|------------|
| AIHA  | AIHA-LAP, LLC - ISO17025:2005                | 100033        | 02/1/2018  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2018 |
| CT    | Connecticut Department of Public Health      | PH-0567       | 09/30/2017 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2018  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2018  |
| RI    | Rhode Island Department of Health            | LAO00112      | 12/30/2017 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2017 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2018 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2018 |
| VT    | Vermont Department of Health Lead Laboratory | LL015036      | 07/30/2018 |
| ME    | State of Maine                               | 2011028       | 06/9/2019  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2017 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2017  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2018 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2018 |

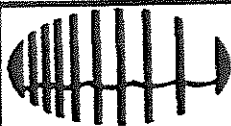








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East Longmeadow, MA. 01028  
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www.contestlabs.com



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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 7/17/12 Time 1645

How were the samples received? In Cooler T No Cooler        On Ice T No Ice         
Direct from Sampling        Ambient        Melted Ice       

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 5.8  
By Blank #        Actual Temp -       

Was Custody Seal Intact? N/A Were Samples Tampered with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T  
Did COC include all Client T Analysis T Sampler Name T  
pertinent Information? 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? N/A MS/MSD? N/A  
Is there Headspace where applicable? N/A Is splitting samples required? N/A  
Proper Media/Containers Used? N/A On COC? N/A  
Were trip blanks received? N/A Acid        Base         
Do all samples have the proper pH? N/A

| Vials        | # | Containers:   | # | #               | # | #             |
|--------------|---|---------------|---|-----------------|---|---------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.    |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore        |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:       |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |               |

#### Unused Media

| Vials        | # | Containers:   | # | #               | # | #             |
|--------------|---|---------------|---|-----------------|---|---------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.    |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore        |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:       |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |               |

Comments:



## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Weston & Sampson

**Project Location:** New Haven, CT

**Project Number:** 17G0629

**Laboratory Sample ID(s):**

17G0629-01 thru 17G0629-26

**Sample Date(s):**

07/17/2017

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

|           |                                                                                                                                                                                                                                                                                                                  |                                                                                                     |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>1</b>  | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>1A</b> | Were the method specified preservation and holding time requirements met?                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>1B</b> | VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?                                                                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> N/A |
| <b>2</b>  | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>3</b>  | Were samples received at an appropriate temperature (< 6 degrees C.)?                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| <b>4</b>  | Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |
| <b>5A</b> | Were reporting limits specified or referenced on the chain-of-custody?                                                                                                                                                                                                                                           | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |
| <b>5B</b> | Were these reporting limits met?                                                                                                                                                                                                                                                                                 | <input type="checkbox"/> Yes <input type="checkbox"/> No                                            |
| <b>6</b>  | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |
| <b>7</b>  | Are project-specific matrix spikes and laboratory duplicates included in this data set?                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 07/26/17
**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**

July 28, 2017

Malcolm Beeler  
Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067

Project Location: 510 Grand Ave., New Haven, CT  
Client Job Number:  
Project Number: 2170495  
Laboratory Work Order Number: 17G0681

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

James M. Georgantas  
Project Manager

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Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067  
ATTN: Malcolm Beeler

REPORT DATE: 7/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0681

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

| FIELD SAMPLE #         | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                     | SUB LAB |
|------------------------|------------|--------|--------------------|------------------------------------------|---------|
| WS-AOC12W-SO-22-1      | 17G0681-01 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-22-2      | 17G0681-02 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-22-3      | 17G0681-03 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-DUP-4     | 17G0681-04 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-5-1A      | 17G0681-05 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-5-1B      | 17G0681-06 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D |         |
| WS-AOC12W-SO-5-2       | 17G0681-07 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-5-3       | 17G0681-08 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-19-1 (MS) | 17G0681-09 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-19-2      | 17G0681-10 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-19-3      | 17G0681-11 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-2-1A      | 17G0681-12 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-2-1B      | 17G0681-13 | Soil   |                    | SM 2540G<br>SW-846 8270D                 |         |
| WS-AOC12W-SO-2-2       | 17G0681-14 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-2-3       | 17G0681-15 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-15-1      | 17G0681-16 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-15-2      | 17G0681-17 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-15-3      | 17G0681-18 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |
| WS-AOC12W-SO-11-1A     | 17G0681-19 | Soil   |                    | SM 2540G<br>SW-846 8082A                 |         |



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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067  
ATTN: Malcolm Beeler

REPORT DATE: 7/28/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

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WORK ORDER NUMBER: 17G0681

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave., New Haven, CT

| FIELD SAMPLE #     | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                                     | SUB LAB |
|--------------------|------------|--------|--------------------|----------------------------------------------------------|---------|
| WS-AOC12W-SO-11-1B | 17G0681-20 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D<br>SW-846 8270D |         |

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#### CASE NARRATIVE SUMMARY

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 8270, only PAHs were requested and reported.

For method 6010, only As was requested and reported.

#### CTDEP ETPH

##### Qualifications:

###### S-01

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

##### Analyte & Samples(s) Qualified:

###### o-Terphenyl

17G0681-06[WS-AOC12W-SO-5-1B], 17G0681-20[WS-AOC12W-SO-11-1B]

#### SW-846 8082A

##### Qualifications:

###### V-05

Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side.

##### Analyte & Samples(s) Qualified:

###### Aroclor-1260 [2C]

B182257-BLK1

#### SW-846 6010C/D SW-846 6020A/B

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-1

Sampled: 7/18/2017 10:16

Sample ID: 17G0681-01

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:08      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 81.7       | 30-150          |           |          |           |              |               | 7/26/17 16:08      |         |
| Decachlorobiphenyl [2]   | 98.5       | 30-150          |           |          |           |              |               | 7/26/17 16:08      |         |
| Tetrachloro-m-xylene [1] | 86.0       | 30-150          |           |          |           |              |               | 7/26/17 16:08      |         |
| Tetrachloro-m-xylene [2] | 94.1       | 30-150          |           |          |           |              |               | 7/26/17 16:08      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-1

Sampled: 7/18/2017 10:16

Sample ID: 17G0681-01

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-2

Sampled: 7/18/2017 10:17

Sample ID: 17G0681-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:20      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 72.5       | 30-150          |           |          |           |              |               | 7/26/17 16:20      |         |
| Decachlorobiphenyl [2]   | 86.6       | 30-150          |           |          |           |              |               | 7/26/17 16:20      |         |
| Tetrachloro-m-xylene [1] | 77.9       | 30-150          |           |          |           |              |               | 7/26/17 16:20      |         |
| Tetrachloro-m-xylene [2] | 82.3       | 30-150          |           |          |           |              |               | 7/26/17 16:20      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-2

Sampled: 7/18/2017 10:17

Sample ID: 17G0681-02

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.1    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-3

Sampled: 7/18/2017 10:18

Sample ID: 17G0681-03

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.22            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:33      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 79.4       | 30-150          |           |          |           |              |               | 7/26/17 16:33      |         |
| Decachlorobiphenyl [2]   | 95.4       | 30-150          |           |          |           |              |               | 7/26/17 16:33      |         |
| Tetrachloro-m-xylene [1] | 90.8       | 30-150          |           |          |           |              |               | 7/26/17 16:33      |         |
| Tetrachloro-m-xylene [2] | 99.0       | 30-150          |           |          |           |              |               | 7/26/17 16:33      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-22-3

Sampled: 7/18/2017 10:18

Sample ID: 17G0681-03

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 46.2    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-4

Sampled: 7/18/2017 00:00

Sample ID: 17G0681-04

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:45      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 61.4       | 30-150          |           |          |           |              |               | 7/26/17 16:45      |         |
| Decachlorobiphenyl [2]   | 72.3       | 30-150          |           |          |           |              |               | 7/26/17 16:45      |         |
| Tetrachloro-m-xylene [1] | 84.0       | 30-150          |           |          |           |              |               | 7/26/17 16:45      |         |
| Tetrachloro-m-xylene [2] | 88.2       | 30-150          |           |          |           |              |               | 7/26/17 16:45      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-4

Sampled: 7/18/2017 00:00

Sample ID: 17G0681-04

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.8    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1A

Sampled: 7/18/2017 10:30

Sample ID: 17G0681-05

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 16:57      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 50.7       | 30-150          |           |          |           |              |               | 7/26/17 16:57      |         |
| Decachlorobiphenyl [2]   | 58.2       | 30-150          |           |          |           |              |               | 7/26/17 16:57      |         |
| Tetrachloro-m-xylene [1] | 84.7       | 30-150          |           |          |           |              |               | 7/26/17 16:57      |         |
| Tetrachloro-m-xylene [2] | 93.4       | 30-150          |           |          |           |              |               | 7/26/17 16:57      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1A

Sampled: 7/18/2017 10:30

Sample ID: 17G0681-05

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 93.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B

Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL  | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|-----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 700        | 230 | mg/Kg dry       | 20       |           | CTDEP ETPH | 7/24/17       | 7/28/17 9:21       | SCS     |
| Surrogates  | % Recovery |     | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |     | 50-150          |          | S-01      |            | 7/28/17 9:21  |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B

Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

Sample Matrix: Soil

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**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 220     | 2.9 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 5:29          | 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: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-1B

Sampled: 7/18/2017 10:32

Sample ID: 17G0681-06

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.2    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-2

Sampled: 7/18/2017 10:34

Sample ID: 17G0681-07

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:10      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 57.0       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 66.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 91.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 93.9       | 30-150          |           |          |           |              |               |                    |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-2

Sampled: 7/18/2017 10:34

Sample ID: 17G0681-07

Sample Matrix: Soil

Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date Prepared | Date/Time Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|---------------|--------------------|---------|
| % Solids | 85.9    |    | % Wt  | 1        |           | SM 2540G | 7/24/17       | 7/25/17 9:10       | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-3

Sampled: 7/18/2017 10:36

Sample ID: 17G0681-08

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.15            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:22      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 50.0       | 30-150          |           |          |           |              |               | 7/26/17 17:22      |         |
| Decachlorobiphenyl [2]   | 58.4       | 30-150          |           |          |           |              |               | 7/26/17 17:22      |         |
| Tetrachloro-m-xylene [1] | 78.0       | 30-150          |           |          |           |              |               | 7/26/17 17:22      |         |
| Tetrachloro-m-xylene [2] | 78.1       | 30-150          |           |          |           |              |               | 7/26/17 17:22      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-5-3

Sampled: 7/18/2017 10:36

Sample ID: 17G0681-08

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 68.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-1 (MS)

Sampled: 7/18/2017 10:38

Sample ID: 17G0681-09

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:35      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 50.8       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 57.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 75.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 81.0       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-1 (MS)

Sampled: 7/18/2017 10:38

Sample ID: 17G0681-09

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-2

Sampled: 7/18/2017 10:39

Sample ID: 17G0681-10

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 17:47      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 58.5       | 30-150          |           |          |           |              |               | 7/26/17 17:47      |         |
| Decachlorobiphenyl [2]   | 65.0       | 30-150          |           |          |           |              |               | 7/26/17 17:47      |         |
| Tetrachloro-m-xylene [1] | 78.6       | 30-150          |           |          |           |              |               | 7/26/17 17:47      |         |
| Tetrachloro-m-xylene [2] | 76.6       | 30-150          |           |          |           |              |               | 7/26/17 17:47      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-2

Sampled: 7/18/2017 10:39

Sample ID: 17G0681-10

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 86.6    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-3

Sampled: 7/18/2017 10:40

Sample ID: 17G0681-11

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:37      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 56.0       | 30-150          |           |          |           |              |               | 7/26/17 18:37      |         |
| Decachlorobiphenyl [2]   | 61.5       | 30-150          |           |          |           |              |               | 7/26/17 18:37      |         |
| Tetrachloro-m-xylene [1] | 85.2       | 30-150          |           |          |           |              |               | 7/26/17 18:37      |         |
| Tetrachloro-m-xylene [2] | 91.7       | 30-150          |           |          |           |              |               | 7/26/17 18:37      |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-19-3

Sampled: 7/18/2017 10:40

Sample ID: 17G0681-11

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 77.0    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1A

Sampled: 7/18/2017 10:54

Sample ID: 17G0681-12

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:49      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 62.2       | 30-150          |           |          |           |              |               | 7/26/17 18:49      |         |
| Decachlorobiphenyl [2]   | 69.5       | 30-150          |           |          |           |              |               | 7/26/17 18:49      |         |
| Tetrachloro-m-xylene [1] | 83.0       | 30-150          |           |          |           |              |               | 7/26/17 18:49      |         |
| Tetrachloro-m-xylene [2] | 87.4       | 30-150          |           |          |           |              |               | 7/26/17 18:49      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1A

Sampled: 7/18/2017 10:54

Sample ID: 17G0681-12

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1B

Sampled: 7/18/2017 10:56

Sample ID: 17G0681-13

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Acenaphthylene         | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Anthracene             | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Benzo(a)anthracene     | 0.36       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Benzo(a)pyrene         | 0.27       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Benzo(b)fluoranthene   | 0.42       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Benzo(g,h,i)perylene   | 0.26       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Chrysene               | 0.59       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Fluoranthene           | 0.64       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Fluorene               | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Indeno(1,2,3-cd)pyrene | 0.25       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| 2-Methylnaphthalene    | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Naphthalene            | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Phenanthrene           | 0.57       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Pyrene                 | 0.69       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 16:44      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Nitrobenzene-d5        | 65.2       | 30-130          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 69.8       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 84.8       | 30-130          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-1B

Sampled: 7/18/2017 10:56

Sample ID: 17G0681-13

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 88.2    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-2

Sampled: 7/18/2017 10:58

Sample ID: 17G0681-14

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:02      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 57.1       | 30-150          |           |          |           |              |               | 7/26/17 19:02      |         |
| Decachlorobiphenyl [2]   | 62.6       | 30-150          |           |          |           |              |               | 7/26/17 19:02      |         |
| Tetrachloro-m-xylene [1] | 81.1       | 30-150          |           |          |           |              |               | 7/26/17 19:02      |         |
| Tetrachloro-m-xylene [2] | 87.0       | 30-150          |           |          |           |              |               | 7/26/17 19:02      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-2

Sampled: 7/18/2017 10:58

Sample ID: 17G0681-14

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 71.4    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-3

Sampled: 7/18/2017 11:00

Sample ID: 17G0681-15

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.19            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:14      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 62.9       | 30-150          |           |          |           |              |               | 7/26/17 19:14      |         |
| Decachlorobiphenyl [2]   | 68.5       | 30-150          |           |          |           |              |               | 7/26/17 19:14      |         |
| Tetrachloro-m-xylene [1] | 86.0       | 30-150          |           |          |           |              |               | 7/26/17 19:14      |         |
| Tetrachloro-m-xylene [2] | 92.4       | 30-150          |           |          |           |              |               | 7/26/17 19:14      |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-2-3

Sampled: 7/18/2017 11:00

Sample ID: 17G0681-15

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 52.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-1

Sampled: 7/18/2017 11:01

Sample ID: 17G0681-16

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:27      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 68.7       | 30-150          |           |          |           |              |               | 7/26/17 19:27      |         |
| Decachlorobiphenyl [2]   | 74.1       | 30-150          |           |          |           |              |               | 7/26/17 19:27      |         |
| Tetrachloro-m-xylene [1] | 99.6       | 30-150          |           |          |           |              |               | 7/26/17 19:27      |         |
| Tetrachloro-m-xylene [2] | 76.7       | 30-150          |           |          |           |              |               | 7/26/17 19:27      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-1

Sampled: 7/18/2017 11:01

Sample ID: 17G0681-16

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.6    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-2

Sampled: 7/18/2017 11:02

Sample ID: 17G0681-17

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:39      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 54.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 60.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 62.3       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 64.4       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-2

Sampled: 7/18/2017 11:02

Sample ID: 17G0681-17

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.8    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-3

Sampled: 7/18/2017 11:03

Sample ID: 17G0681-18

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:52      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 66.6       | 30-150          |           |          |           |              |               | 7/26/17 19:52      |         |
| Decachlorobiphenyl [2]   | 72.5       | 30-150          |           |          |           |              |               | 7/26/17 19:52      |         |
| Tetrachloro-m-xylene [1] | 78.0       | 30-150          |           |          |           |              |               | 7/26/17 19:52      |         |
| Tetrachloro-m-xylene [2] | 83.5       | 30-150          |           |          |           |              |               | 7/26/17 19:52      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-15-3

Sampled: 7/18/2017 11:03

Sample ID: 17G0681-18

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 72.8    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1A

Sampled: 7/18/2017 11:15

Sample ID: 17G0681-19

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:04      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 71.5       | 30-150          |           |          |           |              |               | 7/26/17 20:04      |         |
| Decachlorobiphenyl [2]   | 78.3       | 30-150          |           |          |           |              |               | 7/26/17 20:04      |         |
| Tetrachloro-m-xylene [1] | 87.5       | 30-150          |           |          |           |              |               | 7/26/17 20:04      |         |
| Tetrachloro-m-xylene [2] | 95.3       | 30-150          |           |          |           |              |               | 7/26/17 20:04      |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1A

Sampled: 7/18/2017 11:15

Sample ID: 17G0681-19

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 94.9    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B

Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Acenaphthylene         | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Anthracene             | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Benzo(a)anthracene     | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Benzo(a)pyrene         | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Benzo(b)fluoranthene   | 0.21       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Benzo(g,h,i)perylene   | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Chrysene               | 0.63       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Fluoranthene           | 0.30       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Fluorene               | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Indeno(1,2,3-cd)pyrene | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| 2-Methylnaphthalene    | 0.97       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Naphthalene            | 0.50       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Phenanthrene           | 1.3        | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Pyrene                 | 0.38       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/21/17       | 7/24/17 17:06      | BGL     |
| Surrogates             | % Recovery | Recovery Limits |           |          | Flag/Qual |              |               |                    |         |
| Nitrobenzene-d5        | 76.3       | 30-130          |           |          |           |              |               | 7/24/17 17:06      |         |
| 2-Fluorobiphenyl       | 74.3       | 30-130          |           |          |           |              |               | 7/24/17 17:06      |         |
| p-Terphenyl-d14        | 111        | 30-130          |           |          |           |              |               | 7/24/17 17:06      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B

Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL  | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|-----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 790        | 220 | mg/Kg dry       | 20       |           | CTDEP ETPH | 7/24/17       | 7/28/17 5:19       | SCS     |
| Surrogates  | % Recovery |     | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |     | 50-150          |          | S-01      |            | 7/28/17 5:19  |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave., New Haven, CT

Sample Description:

Work Order: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B

Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

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**Metals Analyses (Total)**

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 15      | 2.6 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 5:33          | 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: 17G0681

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-1B

Sampled: 7/18/2017 11:16

Sample ID: 17G0681-20

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 90.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 9:10          | MRL     |

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     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0681-06 [WS-AOC12W-SO-5-1B]  | B182388 | 30.0        | 1.00       | 07/24/17 |
| 17G0681-20 [WS-AOC12W-SO-11-1B] | B182388 | 30.0        | 1.00       | 07/24/17 |

#### Prep Method: % Solids-SM 2540G

| Lab Number [Field ID]               | Batch   | Date     |
|-------------------------------------|---------|----------|
| 17G0681-01 [WS-AOC12W-SO-22-1]      | B182352 | 07/24/17 |
| 17G0681-02 [WS-AOC12W-SO-22-2]      | B182352 | 07/24/17 |
| 17G0681-03 [WS-AOC12W-SO-22-3]      | B182352 | 07/24/17 |
| 17G0681-04 [WS-AOC12W-SO-DUP-4]     | B182352 | 07/24/17 |
| 17G0681-05 [WS-AOC12W-SO-5-1A]      | B182352 | 07/24/17 |
| 17G0681-06 [WS-AOC12W-SO-5-1B]      | B182352 | 07/24/17 |
| 17G0681-07 [WS-AOC12W-SO-5-2]       | B182352 | 07/24/17 |
| 17G0681-08 [WS-AOC12W-SO-5-3]       | B182352 | 07/24/17 |
| 17G0681-09 [WS-AOC12W-SO-19-1 (MS)] | B182352 | 07/24/17 |
| 17G0681-10 [WS-AOC12W-SO-19-2]      | B182352 | 07/24/17 |
| 17G0681-11 [WS-AOC12W-SO-19-3]      | B182352 | 07/24/17 |
| 17G0681-12 [WS-AOC12W-SO-2-1A]      | B182352 | 07/24/17 |
| 17G0681-13 [WS-AOC12W-SO-2-1B]      | B182352 | 07/24/17 |
| 17G0681-14 [WS-AOC12W-SO-2-2]       | B182352 | 07/24/17 |
| 17G0681-15 [WS-AOC12W-SO-2-3]       | B182352 | 07/24/17 |
| 17G0681-16 [WS-AOC12W-SO-15-1]      | B182352 | 07/24/17 |
| 17G0681-17 [WS-AOC12W-SO-15-2]      | B182352 | 07/24/17 |
| 17G0681-18 [WS-AOC12W-SO-15-3]      | B182352 | 07/24/17 |
| 17G0681-19 [WS-AOC12W-SO-11-1A]     | B182352 | 07/24/17 |
| 17G0681-20 [WS-AOC12W-SO-11-1B]     | B182352 | 07/24/17 |

#### Prep Method: SW-846 3050B-SW-846 6010C-D

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0681-06 [WS-AOC12W-SO-5-1B]  | B182155 | 1.01        | 50.0       | 07/20/17 |
| 17G0681-20 [WS-AOC12W-SO-11-1B] | B182155 | 1.06        | 50.0       | 07/20/17 |

#### Prep Method: SW-846 3540C-SW-846 8082A

| Lab Number [Field ID]               | Batch   | Initial [g] | Final [mL] | Date     |
|-------------------------------------|---------|-------------|------------|----------|
| 17G0681-01 [WS-AOC12W-SO-22-1]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-02 [WS-AOC12W-SO-22-2]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-03 [WS-AOC12W-SO-22-3]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-04 [WS-AOC12W-SO-DUP-4]     | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-05 [WS-AOC12W-SO-5-1A]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-07 [WS-AOC12W-SO-5-2]       | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-08 [WS-AOC12W-SO-5-3]       | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-09 [WS-AOC12W-SO-19-1 (MS)] | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-10 [WS-AOC12W-SO-19-2]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-11 [WS-AOC12W-SO-19-3]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-12 [WS-AOC12W-SO-2-1A]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-14 [WS-AOC12W-SO-2-2]       | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-15 [WS-AOC12W-SO-2-3]       | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-16 [WS-AOC12W-SO-15-1]      | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-17 [WS-AOC12W-SO-15-2]      | B182257 | 10.0        | 10.0       | 07/21/17 |

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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     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0681-18 [WS-AOC12W-SO-15-3]  | B182257 | 10.0        | 10.0       | 07/21/17 |
| 17G0681-19 [WS-AOC12W-SO-11-1A] | B182257 | 10.0        | 10.0       | 07/21/17 |

**Prep Method: SW-846 3546-SW-846 8270D**

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0681-13 [WS-AOC12W-SO-2-1B]  | B182275 | 30.0        | 1.00       | 07/21/17 |
| 17G0681-20 [WS-AOC12W-SO-11-1B] | B182275 | 30.0        | 1.00       | 07/21/17 |

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 B182275 - SW-846 3546**
**Blank (B182275-BLK1)**

Prepared: 07/21/17 Analyzed: 07/24/17

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Acenaphthylene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Anthracene                  | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)anthracene          | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(a)pyrene              | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(b)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(g,h,i)perylene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Benzo(k)fluoranthene        | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Chrysene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Dibenz(a,h)anthracene       | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluoranthene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Fluorene                    | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Indeno(1,2,3-cd)pyrene      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| 2-Methylnaphthalene         | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Naphthalene                 | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Phenanthrene                | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Pyrene                      | ND   | 0.17 | mg/Kg wet |      |  |      |        |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.42 |      | mg/Kg wet | 3.33 |  | 72.5 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.43 |      | mg/Kg wet | 3.33 |  | 72.8 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.94 |      | mg/Kg wet | 3.33 |  | 88.3 | 30-130 |  |  |  |

**LCS (B182275-BS1)**

Prepared: 07/21/17 Analyzed: 07/24/17

|                             |      |      |           |      |  |      |        |  |  |  |
|-----------------------------|------|------|-----------|------|--|------|--------|--|--|--|
| Acenaphthene                | 1.14 | 0.17 | mg/Kg wet | 1.67 |  | 68.7 | 40-140 |  |  |  |
| Acenaphthylene              | 1.11 | 0.17 | mg/Kg wet | 1.67 |  | 66.7 | 40-140 |  |  |  |
| Anthracene                  | 1.22 | 0.17 | mg/Kg wet | 1.67 |  | 73.1 | 40-140 |  |  |  |
| Benzo(a)anthracene          | 1.24 | 0.17 | mg/Kg wet | 1.67 |  | 74.2 | 40-140 |  |  |  |
| Benzo(a)pyrene              | 1.25 | 0.17 | mg/Kg wet | 1.67 |  | 75.1 | 40-140 |  |  |  |
| Benzo(b)fluoranthene        | 1.15 | 0.17 | mg/Kg wet | 1.67 |  | 69.1 | 40-140 |  |  |  |
| Benzo(g,h,i)perylene        | 1.50 | 0.17 | mg/Kg wet | 1.67 |  | 90.0 | 40-140 |  |  |  |
| Benzo(k)fluoranthene        | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.9 | 40-140 |  |  |  |
| Chrysene                    | 1.22 | 0.17 | mg/Kg wet | 1.67 |  | 73.0 | 40-140 |  |  |  |
| Dibenz(a,h)anthracene       | 1.41 | 0.17 | mg/Kg wet | 1.67 |  | 84.5 | 40-140 |  |  |  |
| Fluoranthene                | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.9 | 40-140 |  |  |  |
| Fluorene                    | 1.16 | 0.17 | mg/Kg wet | 1.67 |  | 69.7 | 40-140 |  |  |  |
| Indeno(1,2,3-cd)pyrene      | 1.40 | 0.17 | mg/Kg wet | 1.67 |  | 84.0 | 40-140 |  |  |  |
| 2-Methylnaphthalene         | 1.12 | 0.17 | mg/Kg wet | 1.67 |  | 67.4 | 40-140 |  |  |  |
| Naphthalene                 | 1.03 | 0.17 | mg/Kg wet | 1.67 |  | 61.8 | 40-140 |  |  |  |
| Phenanthrene                | 1.23 | 0.17 | mg/Kg wet | 1.67 |  | 73.7 | 40-140 |  |  |  |
| Pyrene                      | 1.18 | 0.17 | mg/Kg wet | 1.67 |  | 70.8 | 40-140 |  |  |  |
| Surrogate: Nitrobenzene-d5  | 2.44 |      | mg/Kg wet | 3.33 |  | 73.1 | 30-130 |  |  |  |
| Surrogate: 2-Fluorobiphenyl | 2.66 |      | mg/Kg wet | 3.33 |  | 79.9 | 30-130 |  |  |  |
| Surrogate: p-Terphenyl-d14  | 2.80 |      | mg/Kg wet | 3.33 |  | 84.0 | 30-130 |  |  |  |



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<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182275 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B182275-BSD1)</b>      |        |                    |           |                | Prepared: 07/21/17 Analyzed: 07/24/17 |      |                |      |              |       |
| Acenaphthene                       | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.7 | 40-140         | 10.7 | 30           |       |
| Acenaphthylene                     | 1.00   | 0.17               | mg/Kg wet | 1.67           |                                       | 60.2 | 40-140         | 10.2 | 30           |       |
| Anthracene                         | 1.06   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.9 | 40-140         | 13.4 | 30           |       |
| Benzo(a)anthracene                 | 1.09   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.6 | 40-140         | 12.4 | 30           |       |
| Benzo(a)pyrene                     | 1.09   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.5 | 40-140         | 13.7 | 30           |       |
| Benzo(b)fluoranthene               | 1.02   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.1 | 40-140         | 12.3 | 30           |       |
| Benzo(g,h,i)perylene               | 1.27   | 0.17               | mg/Kg wet | 1.67           |                                       | 76.4 | 40-140         | 16.3 | 30           |       |
| Benzo(k)fluoranthene               | 1.02   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.2 | 40-140         | 14.7 | 30           |       |
| Chrysene                           | 1.08   | 0.17               | mg/Kg wet | 1.67           |                                       | 65.0 | 40-140         | 11.7 | 30           |       |
| Dibenz(a,h)anthracene              | 1.21   | 0.17               | mg/Kg wet | 1.67           |                                       | 72.7 | 40-140         | 15.0 | 30           |       |
| Fluoranthene                       | 1.05   | 0.17               | mg/Kg wet | 1.67           |                                       | 63.0 | 40-140         | 11.9 | 30           |       |
| Fluorene                           | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.8 | 40-140         | 11.9 | 30           |       |
| Indeno(1,2,3-cd)pyrene             | 1.18   | 0.17               | mg/Kg wet | 1.67           |                                       | 70.7 | 40-140         | 17.3 | 30           |       |
| 2-Methylnaphthalene                | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.7 | 40-140         | 8.86 | 30           |       |
| Naphthalene                        | 0.990  | 0.17               | mg/Kg wet | 1.67           |                                       | 59.4 | 40-140         | 4.03 | 30           |       |
| Phenanthrene                       | 1.07   | 0.17               | mg/Kg wet | 1.67           |                                       | 64.0 | 40-140         | 14.0 | 30           |       |
| Pyrene                             | 1.03   | 0.17               | mg/Kg wet | 1.67           |                                       | 61.9 | 40-140         | 13.3 | 30           |       |
| Surrogate: Nitrobenzene-d5         | 2.28   |                    | mg/Kg wet | 3.33           |                                       | 68.4 | 30-130         |      |              |       |
| Surrogate: 2-Fluorobiphenyl        | 2.36   |                    | mg/Kg wet | 3.33           |                                       | 70.8 | 30-130         |      |              |       |
| Surrogate: p-Terphenyl-d14         | 2.43   |                    | mg/Kg wet | 3.33           |                                       | 72.8 | 30-130         |      |              |       |

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 |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|------|-----------|-------|
| <b>Batch B182257 - SW-846 3540C</b>   |        |                 |           |             |               |      |             |      |           |       |
| <b>Blank (B182257-BLK1)</b>           |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/21/17 Analyzed: 07/26/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1016 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1221                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1221 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1232                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1232 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1242                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1242 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1248                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1248 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1254                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1254 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1260                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1260 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           | V-05  |
| Aroclor-1262                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1262 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1268                          | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Aroclor-1268 [2C]                     | ND     | 0.020           | mg/Kg wet |             |               |      |             |      |           |       |
| Surrogate: Decachlorobiphenyl         | 0.169  |                 | mg/Kg wet | 0.200       |               | 84.3 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.168  |                 | mg/Kg wet | 0.200       |               | 83.8 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.172  |                 | mg/Kg wet | 0.200       |               | 86.1 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.156  |                 | mg/Kg wet | 0.200       |               | 77.9 | 30-150      |      |           |       |
| <b>LCS (B182257-BS1)</b>              |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/21/17 Analyzed: 07/27/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 86.5 | 40-140      |      |           |       |
| Aroclor-1016 [2C]                     | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 85.1 | 40-140      |      |           |       |
| Aroclor-1260                          | 0.17   | 0.020           | mg/Kg wet | 0.200       |               | 84.5 | 40-140      |      |           |       |
| Aroclor-1260 [2C]                     | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 78.7 | 40-140      |      |           |       |
| Surrogate: Decachlorobiphenyl         | 0.195  |                 | mg/Kg wet | 0.200       |               | 97.7 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.167  |                 | mg/Kg wet | 0.200       |               | 83.7 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.175  |                 | mg/Kg wet | 0.200       |               | 87.3 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.143  |                 | mg/Kg wet | 0.200       |               | 71.3 | 30-150      |      |           |       |
| <b>LCS Dup (B182257-BSD1)</b>         |        |                 |           |             |               |      |             |      |           |       |
| Prepared: 07/21/17 Analyzed: 07/27/17 |        |                 |           |             |               |      |             |      |           |       |
| Aroclor-1016                          | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 81.5 | 40-140      | 5.97 | 30        |       |
| Aroclor-1016 [2C]                     | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 79.3 | 40-140      | 7.07 | 30        |       |
| Aroclor-1260                          | 0.16   | 0.020           | mg/Kg wet | 0.200       |               | 78.0 | 40-140      | 8.03 | 30        |       |
| Aroclor-1260 [2C]                     | 0.15   | 0.020           | mg/Kg wet | 0.200       |               | 73.3 | 40-140      | 7.19 | 30        |       |
| Surrogate: Decachlorobiphenyl         | 0.185  |                 | mg/Kg wet | 0.200       |               | 92.7 | 30-150      |      |           |       |
| Surrogate: Decachlorobiphenyl [2C]    | 0.166  |                 | mg/Kg wet | 0.200       |               | 82.8 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene       | 0.176  |                 | mg/Kg wet | 0.200       |               | 88.0 | 30-150      |      |           |       |
| Surrogate: Tetrachloro-m-xylene [2C]  | 0.145  |                 | mg/Kg wet | 0.200       |               | 72.5 | 30-150      |      |           |       |

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**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182257 - SW-846 3540C**
**Matrix Spike (B182257-MS1)**
**Source: 17G0681-09**

Prepared: 07/21/17 Analyzed: 07/27/17

|                                      |       |      |           |       |    |      |        |  |  |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|--|--|--|
| Aroclor-1016                         | 0.18  | 0.11 | mg/Kg dry | 0.212 | ND | 87.2 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.18  | 0.11 | mg/Kg dry | 0.212 | ND | 84.1 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.16  | 0.11 | mg/Kg dry | 0.212 | ND | 74.1 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.11 | mg/Kg dry | 0.212 | ND | 66.1 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.137 |      | mg/Kg dry | 0.212 |    | 64.5 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.165 |      | mg/Kg dry | 0.212 |    | 78.0 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.192 |      | mg/Kg dry | 0.212 |    | 90.9 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.206 |      | mg/Kg dry | 0.212 |    | 97.4 | 30-150 |  |  |  |

**Matrix Spike Dup (B182257-MSD1)**
**Source: 17G0681-09**

Prepared: 07/21/17 Analyzed: 07/27/17

|                                      |       |      |           |       |    |      |        |      |    |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|------|----|--|
| Aroclor-1016                         | 0.19  | 0.11 | mg/Kg dry | 0.212 | ND | 89.9 | 40-140 | 2.97 | 50 |  |
| Aroclor-1016 [2C]                    | 0.19  | 0.11 | mg/Kg dry | 0.212 | ND | 89.5 | 40-140 | 6.24 | 50 |  |
| Aroclor-1260                         | 0.15  | 0.11 | mg/Kg dry | 0.212 | ND | 72.2 | 40-140 | 2.54 | 50 |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.11 | mg/Kg dry | 0.212 | ND | 64.5 | 40-140 | 2.33 | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.145 |      | mg/Kg dry | 0.212 |    | 68.4 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.163 |      | mg/Kg dry | 0.212 |    | 77.0 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.197 |      | mg/Kg dry | 0.212 |    | 93.1 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.210 |      | mg/Kg dry | 0.212 |    | 99.2 | 30-150 |      |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182388 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>Blank (B182388-BLK1)</b>        |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                |                                       |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 3.91   |                    | mg/Kg wet | 3.33           |                                       | 117  | 50-150         |      |              |       |
| <b>LCS (B182388-BS1)</b>           |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | 34.3   | 10                 | mg/Kg wet | 33.3           |                                       | 103  | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 3.19   |                    | mg/Kg wet | 3.33           |                                       | 95.6 | 50-150         |      |              |       |
| <b>LCS Dup (B182388-BSD1)</b>      |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | 31.3   | 10                 | mg/Kg wet | 33.3           |                                       | 93.8 | 60-120         | 9.16 | 30           |       |
| Surrogate: o-Terphenyl             | 2.82   |                    | mg/Kg wet | 3.33           |                                       | 84.6 | 50-150         |      |              |       |

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**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

| Analyte                             | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B182155 - SW-846 3050B</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B182155-BLK1)</b>         |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | ND     | 2.5                | mg/Kg wet |                                       |                  |      |                |      |              |       |
| <b>LCS (B182155-BS1)</b>            |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | 52.4   | 4.9                | mg/Kg wet | 57.0                                  |                  | 92.0 | 77.8-122.1     |      |              |       |
| <b>LCS Dup (B182155-BSD1)</b>       |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | 54.4   | 5.0                | mg/Kg wet | 57.0                                  |                  | 95.4 | 77.8-122.1     | 3.72 | 30           |       |

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**QUALITY CONTROL**
**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182352 - % Solids**
**Duplicate (B182352-DUP3)**
**Source: 17G0681-09**

Prepared: 07/24/17 Analyzed: 07/25/17

|          |      |  |      |  |      |  |  |       |    |  |
|----------|------|--|------|--|------|--|--|-------|----|--|
| % Solids | 95.4 |  | % Wt |  | 94.5 |  |  | 0.948 | 20 |  |
|----------|------|--|------|--|------|--|--|-------|----|--|

**Duplicate (B182352-DUP4)**
**Source: 17G0681-10**

Prepared: 07/24/17 Analyzed: 07/25/17

|          |      |  |      |  |      |  |  |       |    |  |
|----------|------|--|------|--|------|--|--|-------|----|--|
| % Solids | 87.1 |  | % Wt |  | 86.6 |  |  | 0.576 | 20 |  |
|----------|------|--|------|--|------|--|--|-------|----|--|

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B182257-BS1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.17          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 6.1  |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS Dup

Lab Sample ID: B182257-BSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.15          | 6.5  |



**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike**

Lab Sample ID: B182257-MS1 Date(s) Analyzed: 07/27/2017 07/27/2017  
Instrument ID (1): ECD 9 Instrument ID (2): ECD 9  
GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.18          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.18          | 5.4  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 13.3 |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

Matrix Spike Dup

Lab Sample ID: B182257-MSD1 Date(s) Analyzed: 07/27/2017 07/27/2017

Instrument ID (1): ECD 9 Instrument ID (2): ECD 9

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.19          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.19          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 6.9  |

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|      |                                                                                                                                                                                                                       |
|------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *    | QC result is outside of established limits.                                                                                                                                                                           |
| †    | Wide recovery limits established for difficult compound.                                                                                                                                                              |
| ‡    | Wide RPD limits established for difficult compound.                                                                                                                                                                   |
| #    | Data exceeded client recommended or regulatory level                                                                                                                                                                  |
| ND   | Not Detected                                                                                                                                                                                                          |
| RL   | Reporting Limit                                                                                                                                                                                                       |
| DL   | Method Detection Limit                                                                                                                                                                                                |
| MCL  | Maximum Contaminant Level                                                                                                                                                                                             |
|      | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.                                                                |
|      | No results have been blank subtracted unless specified in the case narrative section.                                                                                                                                 |
| S-01 | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.                              |
| V-05 | Continuing calibration did not meet method specifications and was biased on the low side for this compound. Increased uncertainty is associated with the reported value which is likely to be biased on the low side. |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

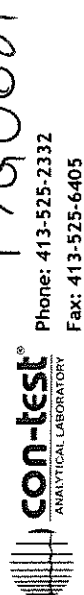
| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| Acenaphthene                         | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                       | CT,NY,NH,ME,NC,VA |
| Anthracene                           | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                   | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                       | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                 | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Chrysene                             | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                | CT,NY,NH,ME,NC,VA |
| Fluoranthene                         | CT,NY,NH,ME,NC,VA |
| Fluorene                             | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene               | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                  | CT,NY,NH,ME,NC,VA |
| Naphthalene                          | CT,NY,NH,ME,NC,VA |
| Phenanthrene                         | CT,NY,NH,ME,NC,VA |
| Pyrene                               | CT,NY,NH,ME,NC,VA |

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code  | Description                                  | Number        | Expires    |
|-------|----------------------------------------------|---------------|------------|
| AIHA  | AIHA-LAP, LLC - ISO17025:2005                | 100033        | 02/1/2018  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2018 |
| CT    | Connecticut Department of Public Health      | PH-0567       | 09/30/2017 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2018  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2018  |
| RI    | Rhode Island Department of Health            | LAO00112      | 12/30/2017 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2017 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2018 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2018 |
| VT    | Vermont Department of Health Lead Laboratory | LL015036      | 07/30/2018 |
| ME    | State of Maine                               | 2011028       | 06/9/2019  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2017 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2017  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2018 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2018 |

## CHAIN OF CUSTODY RECORD



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Company Name: Weston &amp; Sampson Engineers

Address: 273 Dividend Rd Rocky Hill, CT

Phone: 860 513-1473

Project Name: English Station

Project Location: 510 Grand Ave, New Haven, CT

Project Number: 2170495

Project Manager: Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston &amp; Sampson)

Sampled By: Chris Berthiaume/Will Sirotnak

|                                                                |                                           |
|----------------------------------------------------------------|-------------------------------------------|
| Requested Turnaround Time                                      |                                           |
| 7-Day <input checked="" type="checkbox"/>                      | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/> 5-day <input type="checkbox"/> |                                           |
| Rush Approval Required                                         |                                           |
| 1-Day <input type="checkbox"/>                                 | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                                 | 4-Day <input type="checkbox"/>            |
| Data Delivery                                                  |                                           |
| Format: PDF <input checked="" type="checkbox"/>                | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                                |                                           |
| Enhanced Data Package Required: <input type="checkbox"/>       |                                           |
| Email To: beelerm@wseinc.com                                   |                                           |
| Fax To #:                                                      |                                           |

| Con-Test Work Order # | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|-----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 1                     | WS-AOC12W-SO-22-1              | 7/18/17             | 10:16            |           | X    | S           | U         |
| 2                     | WS-AOC12W-SO-22-2              |                     | 10:17            |           |      |             |           |
| 3                     | WS-AOC12W-SO-22-3              |                     | 10:18            |           |      |             |           |
| 4                     | WS-AOC12W-SO-DUP-4             |                     |                  |           |      |             |           |
| 5                     | WS-AOC12W-SO-5-1A              |                     | 10:30            |           |      |             |           |
| 6                     | WS-AOC12W-SO-5-1B              |                     | 10:32            |           |      |             |           |
| 7                     | WS-AOC12W-SO-5-2               |                     | 10:34            |           |      |             |           |
| 8                     | WS-AOC12W-SO-5-3               |                     | 10:36            |           |      |             |           |
| 9                     | WS-AOC12W-SO-19-1(MS)          |                     | 10:38            |           |      |             |           |
| 10                    | WS-AOC12W-SO-19-2              |                     | 10:39            |           |      |             |           |

Comments:

WS-AOC12W-SO-19-1 (MS) - MSD)

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

Relinquished by: (signature) Date/Time: 7/18/17

Received by: (signature) Date/Time: 7/18/17 1520

Relinquished by: (signature) Date/Time: 7/18/17 1500

Received by: (signature) Date/Time: 7/18/17 1700

Relinquished by: (signature) Date/Time:

Received by: (signature) Date/Time:

## Program Information

- ☐ MCP Analytical Certification Form Required  
☒ RCP Analysis Certification Form Required  
☐ MA State DW Form Required  
 PWSID # \_\_\_\_\_

NELAC and AIHA-LAP, LLC Accredited

TURNAROUND TIME (BUSINESS DAYS) STARTS AT 9:00 AM THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON THIS CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR IS INCORRECT, TURNAROUND TIME CANNOT START UNTIL ALL QUESTIONS HAVE BEEN ANSWERED.

PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

|                                      |  |
|--------------------------------------|--|
| # of Containers                      |  |
| Preservation Code                    |  |
| Container Code                       |  |
| Dissolved Metals Samples             |  |
| <input type="radio"/> Field Filtered |  |
| <input type="radio"/> Lab to Filter  |  |
| Dissolved Metals Samples             |  |
| <input type="radio"/> Field Filtered |  |
| <input type="radio"/> Lab to Filter  |  |

**1 Matrix Codes:**  
 GW = Ground Water  
 WW = Waste Water  
 DW = Drinking Water  
 A = Air  
 S = Soil/Solid  
 SL = Sludge  
 O = Other (please define) \_\_\_\_\_

**2 Preservation Codes:**  
 I = Iced  
 H = HCL  
 M = Methanol  
 N = Nitric Acid  
 S = Sulfuric Acid  
 B = Sodium Bisulfate  
 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
 O = Other (please define) \_\_\_\_\_

**3 Container Codes:**  
 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define) \_\_\_\_\_

## ANALYSIS REQUESTED

Arsenic  
 PAHs  
 SPLP ETPH  
 ETPH  
 SPLP PCBs  
 (Soxhlet) PCBs

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  
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 X = Sodium Hydroxide  
 T = Sodium Thiosulfate  
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**3 Container Codes:**  
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 T = Tedlar Bag  
 O = Other (please define) \_\_\_\_\_

## CHAIN OF CUSTODY RECORD

39 Spruce Street  
East Longmeadow, MA 01028

Page 4 of 11



Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

Weston &amp; Sampson Engineers

273 Dividend Rd Rocky Hill, CT

860 513-1473

English Station

510 Grand Ave, New Haven, CT

2170495

Malcolm Beeler

Con-Test Bid:

Invoice Recipient: Malcolm Beeler (Weston &amp; Sampson)

Sampled By: Chris Berthiaume / Will Sirotnak

|                                                                |                                           |
|----------------------------------------------------------------|-------------------------------------------|
| Requested Turnaround Time                                      |                                           |
| 7-Day <input checked="" type="checkbox"/>                      | 10-Day <input type="checkbox"/>           |
| Other: <input type="checkbox"/> 5-day <input type="checkbox"/> |                                           |
| Rush Approval Required                                         |                                           |
| 1-Day <input type="checkbox"/>                                 | 3-Day <input type="checkbox"/>            |
| 2-Day <input type="checkbox"/>                                 | 4-Day <input type="checkbox"/>            |
| Data Delivery                                                  |                                           |
| Format: PDF <input checked="" type="checkbox"/>                | EXCEL <input checked="" type="checkbox"/> |
| Other: <input type="checkbox"/>                                |                                           |
| Enhanced Data Package Required: <input type="checkbox"/>       |                                           |
| Email To: beelerm@wseinc.com                                   |                                           |
| Fax To #:                                                      |                                           |

| Con-Test Work Order# | Client Sample ID / Description | Beginning Date/Time | Ending Date/Time | Composite | Grab | Matrix Code | Conc Code |
|----------------------|--------------------------------|---------------------|------------------|-----------|------|-------------|-----------|
| 1011                 | WS-AOC12W-SO-19-3              | 7/18/17             | 10:40            |           | X    | S           | U         |
| 1112                 | WS-AOC12W-SO-2-1A              |                     | 10:54            |           |      |             |           |
| 1213                 | WS-AOC12W-SO-2-1B              |                     | 10:56            |           |      |             |           |
| 1314                 | WS-AOC12W-SO-2-2               |                     | 10:58            |           |      |             |           |
| 1415                 | WS-AOC12W-SO-2-3               |                     | 11:20            |           |      |             |           |
| 1516                 | WS-AOC12W-SO-15-1              |                     | 11:04            |           |      |             |           |
| 1617                 | WS-AOC12W-SO-15-2              |                     | 11:02            |           |      |             |           |
| 1718                 | WS-AOC12W-SO-15-3              |                     | 11:03            |           |      |             |           |
| 1819                 | WS-AOC12W-SO-11-1A             |                     | 11:15            |           |      |             |           |
| 20                   | WS-AOC12W-SO-11-1B             |                     | 11:16            |           |      |             |           |

Comments:

Please hold excess volumes for possible SPLP analyses.

Please use the following codes to indicate possible sample concentration within the Conc Code column above:

H - High; M - Medium; L - Low; C - Clean; U - Unknown

## Detection Limit Requirements

Date/Time:

Date/Time:

Date/Time:

Date/Time:

## 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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PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT

|                                      |  |
|--------------------------------------|--|
| # of Containers                      |  |
| 2 Preservation Code                  |  |
| 3 Container Code                     |  |
| Disseminated Metals Samples          |  |
| <input type="radio"/> Field Filtered |  |
| <input type="radio"/> Lab to Filter  |  |
| Oxidation/Asphaltenes Samples        |  |
| <input type="radio"/> Field Filtered |  |
| <input type="radio"/> Lab to Filter  |  |

**1 Matrix Codes:**  
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 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  
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 A = Amber Glass  
 G = Glass  
 P = Plastic  
 ST = Sterile  
 V = Vial  
 S = Summa Canister  
 T = Tedlar Bag  
 O = Other (please define)

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
www.contestlabs.com



**con-test®**  
ANALYTICAL LABORATORY

Doc# 277 Rev 5 2017

**Login Sample Receipt Checklist - (Rejection Criteria Listing - Using Acceptance Policy) Any False Statement will be brought to the attention of the Client - State True or False**

Client Weston & Sampson  
Received By SM Date 7/18/17 Time 1700

How were the samples received? In Cooler T No Cooler        On Ice T No Ice         
Direct from Sampling        Ambient        Melted Ice       

Were samples within Temperature? 2-6°C T By Gun # 1 Actual Temp - 2.6, 2.8  
By Blank #        Actual Temp -       

Was Custody Seal Intact? N/A Were Samples Tampered with? F  
Was COC Relinquished? T Does Chain Agree With Samples? T

Are there broken/leaking/loose caps on any samples? F

Is COC in ink/ Legible? T Were samples received within holding time? T  
Did COC include all pertinent Information? Client T Analysis T Sampler Name T  
Project T ID's T Collection Dates/Times T

Are Sample labels filled out and legible? T  
Are there Lab to Filters? N/A Who was notified?         
Are there Rushes? N/A Who was notified?         
Are there Short Holds? N/A Who was notified?       

Is there enough Volume? T  
Is there Headspace where applicable? N/A MS/MSD? T  
Proper Media/Containers Used? T Is splitting samples required? N/A  
Were trip blanks received? N/A On COC? N/A  
Do all samples have the proper pH? N/A Acid        Base       

| V            | # | Containers:   | # | #               | # | #             |
|--------------|---|---------------|---|-----------------|---|---------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.    |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore        |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:       |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |               |

**Unused Media**

| Vials        | # | Containers:   | # | #               | # | #             |
|--------------|---|---------------|---|-----------------|---|---------------|
| Unp-         |   | 1 Liter Amb.  |   | 1 Liter Plastic |   | 16 oz Amb.    |
| HCL-         |   | 500 mL Amb.   |   | 500 mL Plastic  |   | 8oz Amb/Clear |
| Meoh-        |   | 250 mL Amb.   |   | 250 mL Plastic  |   | 4oz Amb/Clear |
| Bisulfate-   |   | Col./Bacteria |   | Flashpoint      |   | 2oz Amb/Clear |
| DI-          |   | Other Plastic |   | Other Glass     |   | Encore        |
| Thiosulfate- |   | SOC Kit       |   | Plastic Bag     |   | Frozen:       |
| Sulfuric-    |   | Perchlorate   |   | Ziplock         |   |               |

Comments:





## REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

**Laboratory Name:** Con-Test Analytical Laboratory

**Client:** Weston & Sampson

**Project Location:** 510 Grand Ave., New Haven, CT

**Project Number:** 17G0681

**Laboratory Sample ID(s):**

17G0681-01 thru 17G0681-20

**Sample Date(s):**

07/18/2017

**List RCP Methods Used:**

CTDEP ETPH, SW-846 6010C-D, SW-846 8082A, SW-846 8270D

|           |                                                                                                                                                                                                                                                                                                                  |                                                                                                     |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| <b>1</b>  | For each analytical method referenced in this laboratory report package, were all specified QA/QC performance criteria followed, including the requirement to explain any criteria falling outside of acceptable guidelines, as specified in the CTDEP method-specific Reasonable Confidence Protocol documents? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>1A</b> | Were the method specified preservation and holding time requirements met?                                                                                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>1B</b> | VPH and EPH Methods only: Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective RCP methods)?                                                                                                                                                                   | <input type="checkbox"/> Yes <input type="checkbox"/> No<br><input checked="" type="checkbox"/> N/A |
| <b>2</b>  | Were all samples received by the laboratory in a condition consistent with that described on the associated chain-of-custody document(s)?                                                                                                                                                                        | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>3</b>  | Were samples received at an appropriate temperature (< 6 degrees C.)?                                                                                                                                                                                                                                            | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No<br><input type="checkbox"/> N/A |
| <b>4</b>  | Were all QA/QC performance criteria specified in the CTDEP Reasonable Confidence Protocol documents achieved?                                                                                                                                                                                                    | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |
| <b>5A</b> | Were reporting limits specified or referenced on the chain-of-custody?                                                                                                                                                                                                                                           | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>5B</b> | Were these reporting limits met?                                                                                                                                                                                                                                                                                 | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |
| <b>6</b>  | For each analytical method referenced in this laboratory report package, were results reported for all constituents identified in the method-specific analyte lists presented in the Reasonable Confidence Protocol documents?                                                                                   | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No                                 |
| <b>7</b>  | Are project-specific matrix spikes and laboratory duplicates included in this data set?                                                                                                                                                                                                                          | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No                                 |

Notes: For all questions to which the response was "No" (with the exception of question #7), additional information must be provided in an attached narrative. If the answer to question #1, #1A, or #1B is "No", the data package does not meet the requirements for "Reasonable Confidence."

This form may not be altered and all questions must be answered.

**I, the undersigned, attest under the pains and penalties of perjury that, to the best of my knowledge and belief and based upon my personal inquiry of those responsible for providing the information contained in this analytical report, such information is accurate and complete.**

**Authorized Signature:**
**Position:** Project Manager
**Printed Name:** Lisa A. Worthington
**Date:** 07/28/17
**Name of Laboratory:** Con-Test Analytical Laboratory

**This certification form is to be used for RCP methods only.**

August 3, 2017

Malcolm Beeler  
Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067

Project Location: 510 Grand Ave, New Haven, CT  
Client Job Number:  
Project Number: 2170495  
Laboratory Work Order Number: 17G0683

Enclosed are results of analyses for samples received by the laboratory on July 18, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Georgantas", with a long, sweeping horizontal line extending to the right.

James M. Georgantas  
Project Manager

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39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067  
ATTN: Malcolm Beeler

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

# ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17G0683

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave, New Haven, CT

| FIELD SAMPLE #            | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                                                     | SUB LAB |
|---------------------------|------------|--------|--------------------|----------------------------------------------------------|---------|
| WS-AOC12W-SO-11-2         | 17G0683-01 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-11-3         | 17G0683-02 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-12-1         | 17G0683-03 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-12-2         | 17G0683-04 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-12-3         | 17G0683-05 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-DUP-5        | 17G0683-06 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-7-1 (MS-MSD) | 17G0683-07 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-7-2          | 17G0683-08 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-7-3          | 17G0683-09 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-35-1         | 17G0683-10 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-35-2A        | 17G0683-11 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-35-2B        | 17G0683-12 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D<br>SW-846 8270D |         |
| WS-AOC12W-SO-35-3         | 17G0683-13 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-35-4         | 17G0683-14 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-42-1         | 17G0683-15 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-42-2A        | 17G0683-16 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |
| WS-AOC12W-SO-42-2B        | 17G0683-17 | Soil   |                    | CTDEP ETPH<br>SM 2540G<br>SW-846 6010C-D<br>SW-846 8270D |         |
| WS-AOC12W-SO-42-3         | 17G0683-18 | Soil   |                    | SM 2540G<br>SW-846 8082A                                 |         |

---

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332Weston & Sampson  
273 Dividend Road  
Rocky Hill, CT 06067  
ATTN: Malcolm Beeler

REPORT DATE: 8/3/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 2170495

**ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 17G0683

The results of analyses performed on the following samples submitted to the CON-TEST Analytical Laboratory are found in this report.

PROJECT LOCATION: 510 Grand Ave, New Haven, CT

| FIELD SAMPLE #    | LAB ID:    | MATRIX | SAMPLE DESCRIPTION | TEST                     | SUB LAB |
|-------------------|------------|--------|--------------------|--------------------------|---------|
| WS-AOC12W-SO-42-4 | 17G0683-19 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |
| WS-AOC12W-SO-41-1 | 17G0683-20 | Soil   |                    | SM 2540G<br>SW-846 8082A |         |

**CASE NARRATIVE SUMMARY**

All reported results are within defined laboratory quality control objectives unless listed below or otherwise qualified in this report.

For method 6010, only As was requested and reported.

For method 8270, only PAHs were requested and reported.

**CTDEP ETPH****Qualifications:****S-01**

The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.

**Analyte & Samples(s) Qualified:****o-Terphenyl**

17G0683-17[WS-AOC12W-SO-42-2B]

**SW-846 8270D****Qualifications:****RL-12**

Elevated reporting limit due to matrix interference.

**Analyte & Samples(s) Qualified:**

17G0683-17[WS-AOC12W-SO-42-2B]

**SW-846 6010C/D SW-846 6020A/B**

For NC, Metals methods SW-846 6010D and SW-846 6020B are followed, and for all other states methods SW-846 6010C and SW-846 6020A are followed.

The results of analyses reported only relate to samples submitted to the Con-Test Analytical Laboratory for testing.

I certify that the analyses listed above, unless specifically listed as subcontracted, if any, were performed under my direction according to the approved methodologies listed in this document, and that based upon my inquiry of those individuals immediately responsible for obtaining the information, the material contained in this report is, to the best of my knowledge and belief, accurate and complete.



Lisa A. Worthington  
Project Manager

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-2

Sampled: 7/18/2017 11:17

Sample ID: 17G0683-01

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:26      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 62.2       | 30-150          |           |          |           |              |               | 7/26/17 18:26      |         |
| Decachlorobiphenyl [2]   | 68.3       | 30-150          |           |          |           |              |               | 7/26/17 18:26      |         |
| Tetrachloro-m-xylene [1] | 71.9       | 30-150          |           |          |           |              |               | 7/26/17 18:26      |         |
| Tetrachloro-m-xylene [2] | 66.0       | 30-150          |           |          |           |              |               | 7/26/17 18:26      |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-2

Sampled: 7/18/2017 11:17

Sample ID: 17G0683-01

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-3

Sampled: 7/18/2017 11:18

Sample ID: 17G0683-02

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:38      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 62.8       | 30-150          |           |          |           |              |               | 7/26/17 18:38      |         |
| Decachlorobiphenyl [2]   | 66.5       | 30-150          |           |          |           |              |               | 7/26/17 18:38      |         |
| Tetrachloro-m-xylene [1] | 77.7       | 30-150          |           |          |           |              |               | 7/26/17 18:38      |         |
| Tetrachloro-m-xylene [2] | 69.4       | 30-150          |           |          |           |              |               | 7/26/17 18:38      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-11-3

Sampled: 7/18/2017 11:18

Sample ID: 17G0683-02

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 81.9    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-1

Sampled: 7/18/2017 11:14

Sample ID: 17G0683-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 18:51      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 66.8       | 30-150          |           |          |           |              |               | 7/26/17 18:51      |         |
| Decachlorobiphenyl [2]   | 71.5       | 30-150          |           |          |           |              |               | 7/26/17 18:51      |         |
| Tetrachloro-m-xylene [1] | 76.3       | 30-150          |           |          |           |              |               | 7/26/17 18:51      |         |
| Tetrachloro-m-xylene [2] | 71.3       | 30-150          |           |          |           |              |               | 7/26/17 18:51      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-1

Sampled: 7/18/2017 11:14

Sample ID: 17G0683-03

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 92.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-2

Sampled: 7/18/2017 11:16

Sample ID: 17G0683-04

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.13            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:04      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 68.1       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 73.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 84.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 77.5       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-2

Sampled: 7/18/2017 11:16

Sample ID: 17G0683-04

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 79.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-3

Sampled: 7/18/2017 11:18

Sample ID: 17G0683-05

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.14            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:16      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 75.7       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 80.8       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 93.9       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 85.4       | 30-150          |           |          |           |              |               |                    |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-12-3

Sampled: 7/18/2017 11:18

Sample ID: 17G0683-05

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 70.7    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-5

Sampled: 7/18/2017 00:00

Sample ID: 17G0683-06

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:29      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 74.6       | 30-150          |           |          |           |              |               | 7/26/17 19:29      |         |
| Decachlorobiphenyl [2]   | 80.2       | 30-150          |           |          |           |              |               | 7/26/17 19:29      |         |
| Tetrachloro-m-xylene [1] | 88.6       | 30-150          |           |          |           |              |               | 7/26/17 19:29      |         |
| Tetrachloro-m-xylene [2] | 81.3       | 30-150          |           |          |           |              |               | 7/26/17 19:29      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-DUP-5

Sampled: 7/18/2017 00:00

Sample ID: 17G0683-06

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.6    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-1 (MS-MSD)

Sampled: 7/18/2017 11:37

Sample ID: 17G0683-07

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:44      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 69.8       | 30-150          |           |          |           |              |               | 7/26/17 22:44      |         |
| Decachlorobiphenyl [2]   | 74.0       | 30-150          |           |          |           |              |               | 7/26/17 22:44      |         |
| Tetrachloro-m-xylene [1] | 71.9       | 30-150          |           |          |           |              |               | 7/26/17 22:44      |         |
| Tetrachloro-m-xylene [2] | 73.8       | 30-150          |           |          |           |              |               | 7/26/17 22:44      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-1 (MS-MSD)

Sampled: 7/18/2017 11:37

Sample ID: 17G0683-07

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 91.4    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-2

Sampled: 7/18/2017 11:38

Sample ID: 17G0683-08

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:42      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 63.8       | 30-150          |           |          |           |              |               | 7/26/17 19:42      |         |
| Decachlorobiphenyl [2]   | 65.1       | 30-150          |           |          |           |              |               | 7/26/17 19:42      |         |
| Tetrachloro-m-xylene [1] | 77.4       | 30-150          |           |          |           |              |               | 7/26/17 19:42      |         |
| Tetrachloro-m-xylene [2] | 70.0       | 30-150          |           |          |           |              |               | 7/26/17 19:42      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-2

Sampled: 7/18/2017 11:38

Sample ID: 17G0683-08

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.0    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-3

Sampled: 7/18/2017 11:39

Sample ID: 17G0683-09

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.16            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 19:55      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 71.1       | 30-150          |           |          |           |              |               | 7/26/17 19:55      |         |
| Decachlorobiphenyl [2]   | 75.0       | 30-150          |           |          |           |              |               | 7/26/17 19:55      |         |
| Tetrachloro-m-xylene [1] | 85.3       | 30-150          |           |          |           |              |               | 7/26/17 19:55      |         |
| Tetrachloro-m-xylene [2] | 77.4       | 30-150          |           |          |           |              |               | 7/26/17 19:55      |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-7-3

Sampled: 7/18/2017 11:39

Sample ID: 17G0683-09

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 61.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-1

Sampled: 7/18/2017 13:02

Sample ID: 17G0683-10

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 20:07      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 70.3       | 30-150          |           |          |           |              |               | 7/26/17 20:07      |         |
| Decachlorobiphenyl [2]   | 74.6       | 30-150          |           |          |           |              |               | 7/26/17 20:07      |         |
| Tetrachloro-m-xylene [1] | 82.3       | 30-150          |           |          |           |              |               | 7/26/17 20:07      |         |
| Tetrachloro-m-xylene [2] | 75.8       | 30-150          |           |          |           |              |               | 7/26/17 20:07      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-1

Sampled: 7/18/2017 13:02

Sample ID: 17G0683-10

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.4    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2A

Sampled: 7/18/2017 13:04

Sample ID: 17G0683-11

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.11            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:00      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 69.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 74.6       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 83.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 76.6       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2A

Sampled: 7/18/2017 13:04

Sample ID: 17G0683-11

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 91.4    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B

Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Acenaphthylene         | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Anthracene             | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Benzo(a)anthracene     | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Benzo(a)pyrene         | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Benzo(b)fluoranthene   | 0.33       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Benzo(g,h,i)perylene   | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Benzo(k)fluoranthene   | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Chrysene               | 0.57       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Fluoranthene           | 0.47       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Fluorene               | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Indeno(1,2,3-cd)pyrene | ND         | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| 2-Methylnaphthalene    | 1.5        | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Naphthalene            | 0.69       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Phenanthrene           | 1.6        | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Pyrene                 | 0.37       | 0.19            | mg/Kg dry | 1        |           | SW-846 8270D | 7/24/17       | 7/25/17 15:57      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Nitrobenzene-d5        | 71.9       | 30-130          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 69.8       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 76.8       | 30-130          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B

Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

# Petrolium Hydrocarbons Analyses

| Analyte     | Results    | RL  | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|-----|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 720        | 220 | mg/Kg dry       | 20       |           | CTDEP ETPH | 7/24/17       | 8/2/17 17:53       | SCS     |
| Surrogates  | % Recovery |     | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | 12.3       | *   | 50-150          |          |           |            |               | 8/2/17 17:53       |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B

Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

## Metals Analyses (Total)

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 12      | 2.8 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 5:37          | 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: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-2B

Sampled: 7/18/2017 13:06

Sample ID: 17G0683-12

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 89.1    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-3

Sampled: 7/18/2017 13:08

Sample ID: 17G0683-13

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:13      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 70.2       | 30-150          |           |          |           |              |               | 7/26/17 21:13      |         |
| Decachlorobiphenyl [2]   | 74.5       | 30-150          |           |          |           |              |               | 7/26/17 21:13      |         |
| Tetrachloro-m-xylene [1] | 84.4       | 30-150          |           |          |           |              |               | 7/26/17 21:13      |         |
| Tetrachloro-m-xylene [2] | 77.5       | 30-150          |           |          |           |              |               | 7/26/17 21:13      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-3

Sampled: 7/18/2017 13:08

Sample ID: 17G0683-13

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 84.3    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-4

Sampled: 7/18/2017 13:10

Sample ID: 17G0683-14

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:26      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 74.3       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 77.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 83.7       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 76.3       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-35-4

Sampled: 7/18/2017 13:10

Sample ID: 17G0683-14

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 82.7    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-1

Sampled: 7/18/2017 13:07

Sample ID: 17G0683-15

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1260 [1]         | 0.19       | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:39      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 65.9       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 71.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 81.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 75.5       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-1

Sampled: 7/18/2017 13:07

Sample ID: 17G0683-15

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 85.5    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2A

Sampled: 7/18/2017 13:08

Sample ID: 17G0683-16

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1260 [1]         | 0.45       | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 21:52      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 64.4       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 69.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 82.1       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 75.8       | 30-150          |           |          |           |              |               |                    |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2A

Sampled: 7/18/2017 13:08

Sample ID: 17G0683-16

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.0    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B

Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

Sample Flags: RL-12

## Semivolatile Organic Compounds by GC/MS

| Analyte                | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Acenaphthene           | ND         | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Acenaphthylene         | 0.43       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Anthracene             | 0.52       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Benzo(a)anthracene     | 1.4        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Benzo(a)pyrene         | 1.6        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Benzo(b)fluoranthene   | 2.3        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Benzo(g,h,i)perylene   | 0.94       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Benzo(k)fluoranthene   | 0.80       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Chrysene               | 1.6        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Dibenz(a,h)anthracene  | ND         | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Fluoranthene           | 3.1        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Fluorene               | ND         | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Indeno(1,2,3-cd)pyrene | 0.99       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| 2-Methylnaphthalene    | 0.54       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Naphthalene            | 0.78       | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Phenanthrene           | 1.6        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Pyrene                 | 2.5        | 0.43            | mg/Kg dry | 2        |           | SW-846 8270D | 7/24/17       | 7/25/17 16:21      | BGL     |
| Surrogates             | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Nitrobenzene-d5        | 79.2       | 30-130          |           |          |           |              |               |                    |         |
| 2-Fluorobiphenyl       | 75.5       | 30-130          |           |          |           |              |               |                    |         |
| p-Terphenyl-d14        | 75.7       | 30-130          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B

Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

# Petroleum Hydrocarbons Analyses

| Analyte     | Results    | RL   | Units           | Dilution | Flag/Qual | Method     | Date Prepared | Date/Time Analyzed | Analyst |
|-------------|------------|------|-----------------|----------|-----------|------------|---------------|--------------------|---------|
| CT ETPH     | 2100       | 1300 | mg/Kg dry       | 100      |           | CTDEP ETPH | 7/24/17       | 7/27/17 3:21       | SCS     |
| Surrogates  | % Recovery |      | Recovery Limits |          | Flag/Qual |            |               |                    |         |
| o-Terphenyl | *          |      | 50-150          |          | S-01      |            | 7/27/17 3:21  |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B

Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

## Metals Analyses (Total)

| Analyte | Results | RL  | Units     | Dilution | Flag/Qual | Method         | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|---------|---------|-----|-----------|----------|-----------|----------------|------------------|-----------------------|---------|
| Arsenic | 120     | 3.0 | mg/Kg dry | 1        |           | SW-846 6010C-D | 7/20/17          | 7/24/17 5:41          | 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: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-2B

Sampled: 7/18/2017 13:09

Sample ID: 17G0683-17

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 79.7    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-3

Sampled: 7/18/2017 13:10

Sample ID: 17G0683-18

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1260 [1]         | 0.60       | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:05      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 62.2       | 30-150          |           |          |           |              |               | 7/26/17 22:05      |         |
| Decachlorobiphenyl [2]   | 68.6       | 30-150          |           |          |           |              |               | 7/26/17 22:05      |         |
| Tetrachloro-m-xylene [1] | 81.1       | 30-150          |           |          |           |              |               | 7/26/17 22:05      |         |
| Tetrachloro-m-xylene [2] | 74.4       | 30-150          |           |          |           |              |               | 7/26/17 22:05      |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-3

Sampled: 7/18/2017 13:10

Sample ID: 17G0683-18

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.1    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-4

Sampled: 7/18/2017 13:11

Sample ID: 17G0683-19

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.12            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:18      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 57.6       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 62.2       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 77.0       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 70.4       | 30-150          |           |          |           |              |               |                    |         |



39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-42-4

Sampled: 7/18/2017 13:11

Sample ID: 17G0683-19

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 83.7    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-1

Sampled: 7/18/2017 13:16

Sample ID: 17G0683-20

Sample Matrix: Soil

### Polychlorinated Biphenyls with 3540 Soxhlet Extraction

| Analyte                  | Results    | RL              | Units     | Dilution | Flag/Qual | Method       | Date Prepared | Date/Time Analyzed | Analyst |
|--------------------------|------------|-----------------|-----------|----------|-----------|--------------|---------------|--------------------|---------|
| Aroclor-1016 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1221 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1232 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1242 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1248 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1254 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1260 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1262 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Aroclor-1268 [1]         | ND         | 0.10            | mg/Kg dry | 5        |           | SW-846 8082A | 7/21/17       | 7/26/17 22:31      | JMB     |
| Surrogates               | % Recovery | Recovery Limits | Flag/Qual |          |           |              |               |                    |         |
| Decachlorobiphenyl [1]   | 64.5       | 30-150          |           |          |           |              |               |                    |         |
| Decachlorobiphenyl [2]   | 68.4       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [1] | 95.5       | 30-150          |           |          |           |              |               |                    |         |
| Tetrachloro-m-xylene [2] | 87.3       | 30-150          |           |          |           |              |               |                    |         |

39 Spruce Street \* East Longmeadow, MA 01028 \* FAX 413/525-6405 \* TEL. 413/525-2332

Project Location: 510 Grand Ave, New Haven, CT

Sample Description:

Work Order: 17G0683

Date Received: 7/18/2017

Field Sample #: WS-AOC12W-SO-41-1

Sampled: 7/18/2017 13:16

Sample ID: 17G0683-20

Sample Matrix: Soil

## Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)

| Analyte  | Results | RL | Units | Dilution | Flag/Qual | Method   | Date<br>Prepared | Date/Time<br>Analyzed | Analyst |
|----------|---------|----|-------|----------|-----------|----------|------------------|-----------------------|---------|
| % Solids | 95.6    |    | % Wt  | 1        |           | SM 2540G | 7/24/17          | 7/25/17 8:31          | MRL     |

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     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0683-12 [WS-AOC12W-SO-35-2B] | B182388 | 30.0        | 1.00       | 07/24/17 |
| 17G0683-17 [WS-AOC12W-SO-42-2B] | B182388 | 30.0        | 1.00       | 07/24/17 |

#### Prep Method: % Solids-SM 2540G

| Lab Number [Field ID]                  | Batch   | Date     |
|----------------------------------------|---------|----------|
| 17G0683-01 [WS-AOC12W-SO-11-2]         | B182353 | 07/24/17 |
| 17G0683-02 [WS-AOC12W-SO-11-3]         | B182353 | 07/24/17 |
| 17G0683-03 [WS-AOC12W-SO-12-1]         | B182353 | 07/24/17 |
| 17G0683-04 [WS-AOC12W-SO-12-2]         | B182353 | 07/24/17 |
| 17G0683-05 [WS-AOC12W-SO-12-3]         | B182353 | 07/24/17 |
| 17G0683-06 [WS-AOC12W-SO-DUP-5]        | B182353 | 07/24/17 |
| 17G0683-07 [WS-AOC12W-SO-7-1 (MS-MSD)] | B182353 | 07/24/17 |
| 17G0683-08 [WS-AOC12W-SO-7-2]          | B182353 | 07/24/17 |
| 17G0683-09 [WS-AOC12W-SO-7-3]          | B182353 | 07/24/17 |
| 17G0683-10 [WS-AOC12W-SO-35-1]         | B182353 | 07/24/17 |
| 17G0683-11 [WS-AOC12W-SO-35-2A]        | B182353 | 07/24/17 |
| 17G0683-12 [WS-AOC12W-SO-35-2B]        | B182353 | 07/24/17 |
| 17G0683-13 [WS-AOC12W-SO-35-3]         | B182353 | 07/24/17 |
| 17G0683-14 [WS-AOC12W-SO-35-4]         | B182353 | 07/24/17 |
| 17G0683-15 [WS-AOC12W-SO-42-1]         | B182353 | 07/24/17 |
| 17G0683-16 [WS-AOC12W-SO-42-2A]        | B182353 | 07/24/17 |
| 17G0683-17 [WS-AOC12W-SO-42-2B]        | B182353 | 07/24/17 |
| 17G0683-18 [WS-AOC12W-SO-42-3]         | B182353 | 07/24/17 |
| 17G0683-19 [WS-AOC12W-SO-42-4]         | B182353 | 07/24/17 |
| 17G0683-20 [WS-AOC12W-SO-41-1]         | B182353 | 07/24/17 |

#### Prep Method: SW-846 3050B-SW-846 6010C-D

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0683-12 [WS-AOC12W-SO-35-2B] | B182155 | 1.01        | 50.0       | 07/20/17 |
| 17G0683-17 [WS-AOC12W-SO-42-2B] | B182155 | 1.06        | 50.0       | 07/20/17 |

#### Prep Method: SW-846 3540C-SW-846 8082A

| Lab Number [Field ID]                  | Batch   | Initial [g] | Final [mL] | Date     |
|----------------------------------------|---------|-------------|------------|----------|
| 17G0683-01 [WS-AOC12W-SO-11-2]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-02 [WS-AOC12W-SO-11-3]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-03 [WS-AOC12W-SO-12-1]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-04 [WS-AOC12W-SO-12-2]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-05 [WS-AOC12W-SO-12-3]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-06 [WS-AOC12W-SO-DUP-5]        | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-07 [WS-AOC12W-SO-7-1 (MS-MSD)] | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-08 [WS-AOC12W-SO-7-2]          | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-09 [WS-AOC12W-SO-7-3]          | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-10 [WS-AOC12W-SO-35-1]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-11 [WS-AOC12W-SO-35-2A]        | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-13 [WS-AOC12W-SO-35-3]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-14 [WS-AOC12W-SO-35-4]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-15 [WS-AOC12W-SO-42-1]         | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-16 [WS-AOC12W-SO-42-2A]        | B182259 | 10.0        | 10.0       | 07/21/17 |

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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     |
|--------------------------------|---------|-------------|------------|----------|
| 17G0683-18 [WS-AOC12W-SO-42-3] | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-19 [WS-AOC12W-SO-42-4] | B182259 | 10.0        | 10.0       | 07/21/17 |
| 17G0683-20 [WS-AOC12W-SO-41-1] | B182259 | 10.0        | 10.0       | 07/21/17 |

**Prep Method: SW-846 3546-SW-846 8270D**

| Lab Number [Field ID]           | Batch   | Initial [g] | Final [mL] | Date     |
|---------------------------------|---------|-------------|------------|----------|
| 17G0683-12 [WS-AOC12W-SO-35-2B] | B182398 | 30.0        | 1.00       | 07/24/17 |
| 17G0683-17 [WS-AOC12W-SO-42-2B] | B182398 | 30.0        | 1.00       | 07/24/17 |

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## QUALITY CONTROL

## Semivolatile Organic Compounds by GC/MS - Quality Control

| Analyte                               | Result | Reporting Limit | Units     | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------|-------------|---------------|------|-------------|-----|-----------|-------|
| <b>Batch B182398 - SW-846 3546</b>    |        |                 |           |             |               |      |             |     |           |       |
| <b>Blank (B182398-BLK1)</b>           |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/24/17 Analyzed: 07/25/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Acenaphthylene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Anthracene                            | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)anthracene                    | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(a)pyrene                        | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(b)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(g,h,i)perylene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Benzo(k)fluoranthene                  | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Chrysene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Dibenz(a,h)anthracene                 | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluoranthene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Fluorene                              | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Indeno(1,2,3-cd)pyrene                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| 2-Methylnaphthalene                   | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Naphthalene                           | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Phenanthrene                          | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Pyrene                                | ND     | 0.17            | mg/Kg wet |             |               |      |             |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.34   |                 | mg/Kg wet | 3.33        |               | 70.3 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.43   |                 | mg/Kg wet | 3.33        |               | 73.0 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 3.03   |                 | mg/Kg wet | 3.33        |               | 90.8 | 30-130      |     |           |       |
| <b>LCS (B182398-BS1)</b>              |        |                 |           |             |               |      |             |     |           |       |
| Prepared: 07/24/17 Analyzed: 07/25/17 |        |                 |           |             |               |      |             |     |           |       |
| Acenaphthene                          | 1.12   | 0.17            | mg/Kg wet | 1.67        |               | 67.0 | 40-140      |     |           |       |
| Acenaphthylene                        | 1.08   | 0.17            | mg/Kg wet | 1.67        |               | 64.9 | 40-140      |     |           |       |
| Anthracene                            | 1.20   | 0.17            | mg/Kg wet | 1.67        |               | 72.0 | 40-140      |     |           |       |
| Benzo(a)anthracene                    | 1.22   | 0.17            | mg/Kg wet | 1.67        |               | 73.2 | 40-140      |     |           |       |
| Benzo(a)pyrene                        | 1.21   | 0.17            | mg/Kg wet | 1.67        |               | 72.7 | 40-140      |     |           |       |
| Benzo(b)fluoranthene                  | 1.14   | 0.17            | mg/Kg wet | 1.67        |               | 68.4 | 40-140      |     |           |       |
| Benzo(g,h,i)perylene                  | 1.31   | 0.17            | mg/Kg wet | 1.67        |               | 78.4 | 40-140      |     |           |       |
| Benzo(k)fluoranthene                  | 1.15   | 0.17            | mg/Kg wet | 1.67        |               | 69.2 | 40-140      |     |           |       |
| Chrysene                              | 1.20   | 0.17            | mg/Kg wet | 1.67        |               | 72.1 | 40-140      |     |           |       |
| Dibenz(a,h)anthracene                 | 1.25   | 0.17            | mg/Kg wet | 1.67        |               | 75.1 | 40-140      |     |           |       |
| Fluoranthene                          | 1.17   | 0.17            | mg/Kg wet | 1.67        |               | 69.9 | 40-140      |     |           |       |
| Fluorene                              | 1.14   | 0.17            | mg/Kg wet | 1.67        |               | 68.2 | 40-140      |     |           |       |
| Indeno(1,2,3-cd)pyrene                | 1.26   | 0.17            | mg/Kg wet | 1.67        |               | 75.8 | 40-140      |     |           |       |
| 2-Methylnaphthalene                   | 1.13   | 0.17            | mg/Kg wet | 1.67        |               | 67.7 | 40-140      |     |           |       |
| Naphthalene                           | 1.07   | 0.17            | mg/Kg wet | 1.67        |               | 64.4 | 40-140      |     |           |       |
| Phenanthrene                          | 1.19   | 0.17            | mg/Kg wet | 1.67        |               | 71.3 | 40-140      |     |           |       |
| Pyrene                                | 1.20   | 0.17            | mg/Kg wet | 1.67        |               | 72.0 | 40-140      |     |           |       |
| Surrogate: Nitrobenzene-d5            | 2.55   |                 | mg/Kg wet | 3.33        |               | 76.4 | 30-130      |     |           |       |
| Surrogate: 2-Fluorobiphenyl           | 2.55   |                 | mg/Kg wet | 3.33        |               | 76.5 | 30-130      |     |           |       |
| Surrogate: p-Terphenyl-d14            | 2.81   |                 | mg/Kg wet | 3.33        |               | 84.3 | 30-130      |     |           |       |

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**QUALITY CONTROL**
**Semivolatile Organic Compounds by GC/MS - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182398 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>LCS Dup (B182398-BSD1)</b>      |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| Acenaphthene                       | 1.18   | 0.17               | mg/Kg wet | 1.67           |                                       | 70.9 | 40-140         | 5.68 | 30           |       |
| Acenaphthylene                     | 1.14   | 0.17               | mg/Kg wet | 1.67           |                                       | 68.6 | 40-140         | 5.54 | 30           |       |
| Anthracene                         | 1.28   | 0.17               | mg/Kg wet | 1.67           |                                       | 76.5 | 40-140         | 6.12 | 30           |       |
| Benzo(a)anthracene                 | 1.31   | 0.17               | mg/Kg wet | 1.67           |                                       | 78.7 | 40-140         | 7.19 | 30           |       |
| Benzo(a)pyrene                     | 1.31   | 0.17               | mg/Kg wet | 1.67           |                                       | 78.5 | 40-140         | 7.72 | 30           |       |
| Benzo(b)fluoranthene               | 1.22   | 0.17               | mg/Kg wet | 1.67           |                                       | 73.1 | 40-140         | 6.59 | 30           |       |
| Benzo(g,h,i)perylene               | 1.37   | 0.17               | mg/Kg wet | 1.67           |                                       | 82.0 | 40-140         | 4.46 | 30           |       |
| Benzo(k)fluoranthene               | 1.22   | 0.17               | mg/Kg wet | 1.67           |                                       | 72.9 | 40-140         | 5.20 | 30           |       |
| Chrysene                           | 1.30   | 0.17               | mg/Kg wet | 1.67           |                                       | 77.7 | 40-140         | 7.53 | 30           |       |
| Dibenz(a,h)anthracene              | 1.34   | 0.17               | mg/Kg wet | 1.67           |                                       | 80.3 | 40-140         | 6.67 | 30           |       |
| Fluoranthene                       | 1.24   | 0.17               | mg/Kg wet | 1.67           |                                       | 74.6 | 40-140         | 6.45 | 30           |       |
| Fluorene                           | 1.19   | 0.17               | mg/Kg wet | 1.67           |                                       | 71.5 | 40-140         | 4.72 | 30           |       |
| Indeno(1,2,3-cd)pyrene             | 1.30   | 0.17               | mg/Kg wet | 1.67           |                                       | 78.2 | 40-140         | 3.09 | 30           |       |
| 2-Methylnaphthalene                | 1.22   | 0.17               | mg/Kg wet | 1.67           |                                       | 73.1 | 40-140         | 7.64 | 30           |       |
| Naphthalene                        | 1.16   | 0.17               | mg/Kg wet | 1.67           |                                       | 69.8 | 40-140         | 7.99 | 30           |       |
| Phenanthrene                       | 1.28   | 0.17               | mg/Kg wet | 1.67           |                                       | 76.6 | 40-140         | 7.22 | 30           |       |
| Pyrene                             | 1.26   | 0.17               | mg/Kg wet | 1.67           |                                       | 75.9 | 40-140         | 5.22 | 30           |       |
| Surrogate: Nitrobenzene-d5         | 2.77   |                    | mg/Kg wet | 3.33           |                                       | 83.0 | 30-130         |      |              |       |
| Surrogate: 2-Fluorobiphenyl        | 2.65   |                    | mg/Kg wet | 3.33           |                                       | 79.6 | 30-130         |      |              |       |
| Surrogate: p-Terphenyl-d14         | 2.93   |                    | mg/Kg wet | 3.33           |                                       | 88.0 | 30-130         |      |              |       |

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**QUALITY CONTROL**
**Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control**

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

**Batch B182259 - SW-846 3540C**
**Blank (B182259-BLK1)**

Prepared: 07/21/17 Analyzed: 07/26/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1016 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1221 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1232 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1242 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1248 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1254 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1260 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1262 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268                         | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Aroclor-1268 [2C]                    | ND    | 0.020 | mg/Kg wet |       |  |      |        |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.154 |       | mg/Kg wet | 0.200 |  | 77.1 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.173 |       | mg/Kg wet | 0.200 |  | 86.6 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.163 |       | mg/Kg wet | 0.200 |  | 81.5 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.162 |       | mg/Kg wet | 0.200 |  | 80.8 | 30-150 |  |  |  |

**LCS (B182259-BS1)**

Prepared: 07/21/17 Analyzed: 07/26/17

|                                      |       |       |           |       |  |      |        |  |  |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|--|--|--|
| Aroclor-1016                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 81.5 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 80.6 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.020 | mg/Kg wet | 0.200 |  | 73.9 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.020 | mg/Kg wet | 0.200 |  | 67.9 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.150 |       | mg/Kg wet | 0.200 |  | 74.9 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.167 |       | mg/Kg wet | 0.200 |  | 83.4 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.164 |       | mg/Kg wet | 0.200 |  | 81.9 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.161 |       | mg/Kg wet | 0.200 |  | 80.6 | 30-150 |  |  |  |

**LCS Dup (B182259-BSD1)**

Prepared: 07/21/17 Analyzed: 07/26/17

|                                      |       |       |           |       |  |      |        |      |    |  |
|--------------------------------------|-------|-------|-----------|-------|--|------|--------|------|----|--|
| Aroclor-1016                         | 0.17  | 0.020 | mg/Kg wet | 0.200 |  | 87.4 | 40-140 | 7.00 | 30 |  |
| Aroclor-1016 [2C]                    | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 82.5 | 40-140 | 2.33 | 30 |  |
| Aroclor-1260                         | 0.16  | 0.020 | mg/Kg wet | 0.200 |  | 78.8 | 40-140 | 6.42 | 30 |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.020 | mg/Kg wet | 0.200 |  | 71.4 | 40-140 | 5.01 | 30 |  |
| Surrogate: Decachlorobiphenyl        | 0.159 |       | mg/Kg wet | 0.200 |  | 79.5 | 30-150 |      |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.177 |       | mg/Kg wet | 0.200 |  | 88.7 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.174 |       | mg/Kg wet | 0.200 |  | 86.8 | 30-150 |      |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.169 |       | mg/Kg wet | 0.200 |  | 84.6 | 30-150 |      |    |  |



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## QUALITY CONTROL

## Polychlorinated Biphenyls with 3540 Soxhlet Extraction - Quality Control

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Notes |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|-------|

## Batch B182259 - SW-846 3540C

## Matrix Spike (B182259-MS1)

Source: 17G0683-07

Prepared: 07/21/17 Analyzed: 07/26/17

|                                      |       |      |           |       |    |      |        |  |  |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|--|--|--|
| Aroclor-1016                         | 0.16  | 0.11 | mg/Kg dry | 0.219 | ND | 71.3 | 40-140 |  |  |  |
| Aroclor-1016 [2C]                    | 0.20  | 0.11 | mg/Kg dry | 0.219 | ND | 90.3 | 40-140 |  |  |  |
| Aroclor-1260                         | 0.15  | 0.11 | mg/Kg dry | 0.219 | ND | 67.4 | 40-140 |  |  |  |
| Aroclor-1260 [2C]                    | 0.14  | 0.11 | mg/Kg dry | 0.219 | ND | 62.2 | 40-140 |  |  |  |
| Surrogate: Decachlorobiphenyl        | 0.147 |      | mg/Kg dry | 0.219 |    | 67.0 | 30-150 |  |  |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.148 |      | mg/Kg dry | 0.219 |    | 67.8 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene      | 0.140 |      | mg/Kg dry | 0.219 |    | 64.2 | 30-150 |  |  |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.126 |      | mg/Kg dry | 0.219 |    | 57.6 | 30-150 |  |  |  |

## Matrix Spike Dup (B182259-MSD1)

Source: 17G0683-07

Prepared: 07/21/17 Analyzed: 07/26/17

|                                      |       |      |           |       |    |      |        |       |    |  |
|--------------------------------------|-------|------|-----------|-------|----|------|--------|-------|----|--|
| Aroclor-1016                         | 0.17  | 0.11 | mg/Kg dry | 0.219 | ND | 77.9 | 40-140 | 8.92  | 50 |  |
| Aroclor-1016 [2C]                    | 0.15  | 0.11 | mg/Kg dry | 0.219 | ND | 68.8 | 40-140 | 27.0  | 50 |  |
| Aroclor-1260                         | 0.15  | 0.11 | mg/Kg dry | 0.219 | ND | 67.2 | 40-140 | 0.327 | 50 |  |
| Aroclor-1260 [2C]                    | 0.13  | 0.11 | mg/Kg dry | 0.219 | ND | 58.2 | 40-140 | 6.66  | 50 |  |
| Surrogate: Decachlorobiphenyl        | 0.137 |      | mg/Kg dry | 0.219 |    | 62.6 | 30-150 |       |    |  |
| Surrogate: Decachlorobiphenyl [2C]   | 0.141 |      | mg/Kg dry | 0.219 |    | 64.3 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene      | 0.150 |      | mg/Kg dry | 0.219 |    | 68.5 | 30-150 |       |    |  |
| Surrogate: Tetrachloro-m-xylene [2C] | 0.142 |      | mg/Kg dry | 0.219 |    | 64.9 | 30-150 |       |    |  |

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**QUALITY CONTROL**
**Petroleum Hydrocarbons Analyses - Quality Control**

| Analyte                            | Result | Reporting<br>Limit | Units     | Spike<br>Level | Source<br>Result                      | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|------------------------------------|--------|--------------------|-----------|----------------|---------------------------------------|------|----------------|------|--------------|-------|
| <b>Batch B182388 - SW-846 3546</b> |        |                    |           |                |                                       |      |                |      |              |       |
| <b>Blank (B182388-BLK1)</b>        |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | ND     | 10                 | mg/Kg wet |                |                                       |      |                |      |              |       |
| Surrogate: o-Terphenyl             | 3.91   |                    | mg/Kg wet | 3.33           |                                       | 117  | 50-150         |      |              |       |
| <b>LCS (B182388-BS1)</b>           |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | 34.3   | 10                 | mg/Kg wet | 33.3           |                                       | 103  | 60-120         |      |              |       |
| Surrogate: o-Terphenyl             | 3.19   |                    | mg/Kg wet | 3.33           |                                       | 95.6 | 50-150         |      |              |       |
| <b>LCS Dup (B182388-BSD1)</b>      |        |                    |           |                |                                       |      |                |      |              |       |
|                                    |        |                    |           |                | Prepared: 07/24/17 Analyzed: 07/25/17 |      |                |      |              |       |
| CT ETPH                            | 31.3   | 10                 | mg/Kg wet | 33.3           |                                       | 93.8 | 60-120         | 9.16 | 30           |       |
| Surrogate: o-Terphenyl             | 2.82   |                    | mg/Kg wet | 3.33           |                                       | 84.6 | 50-150         |      |              |       |

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**QUALITY CONTROL**
**Metals Analyses (Total) - Quality Control**

| Analyte                             | Result | Reporting<br>Limit | Units     | Spike<br>Level                        | Source<br>Result | %REC | %REC<br>Limits | RPD  | RPD<br>Limit | Notes |
|-------------------------------------|--------|--------------------|-----------|---------------------------------------|------------------|------|----------------|------|--------------|-------|
| <b>Batch B182155 - SW-846 3050B</b> |        |                    |           |                                       |                  |      |                |      |              |       |
| <b>Blank (B182155-BLK1)</b>         |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | ND     | 2.5                | mg/Kg wet |                                       |                  |      |                |      |              |       |
| <b>LCS (B182155-BS1)</b>            |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | 52.4   | 4.9                | mg/Kg wet | 57.0                                  |                  | 92.0 | 77.8-122.1     |      |              |       |
| <b>LCS Dup (B182155-BSD1)</b>       |        |                    |           | Prepared: 07/20/17 Analyzed: 07/24/17 |                  |      |                |      |              |       |
| Arsenic                             | 54.4   | 5.0                | mg/Kg wet | 57.0                                  |                  | 95.4 | 77.8-122.1     | 3.72 | 30           |       |

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**QUALITY CONTROL**
**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total) - Quality Control**

| Analyte | Result | Reporting<br>Limit | Units | Spike<br>Level | Source<br>Result | %REC | %REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|
|---------|--------|--------------------|-------|----------------|------------------|------|----------------|-----|--------------|-------|

**Batch B182353 - % Solids**

|                                 |      |                           |      |                                       |      |  |  |      |    |  |
|---------------------------------|------|---------------------------|------|---------------------------------------|------|--|--|------|----|--|
| <b>Duplicate (B182353-DUP1)</b> |      | <b>Source: 17G0683-01</b> |      | Prepared: 07/24/17 Analyzed: 07/25/17 |      |  |  |      |    |  |
| % Solids                        | 80.5 |                           | % Wt |                                       | 83.5 |  |  | 3.66 | 20 |  |
| <b>Duplicate (B182353-DUP2)</b> |      | <b>Source: 17G0683-07</b> |      | Prepared: 07/24/17 Analyzed: 07/25/17 |      |  |  |      |    |  |
| % Solids                        | 92.5 |                           | % Wt |                                       | 91.4 |  |  | 1.20 | 20 |  |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-42-1***SW-846 8082A*

Lab Sample ID: 17G0683-15 Date(s) Analyzed: 07/26/2017 07/26/2017  
Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_  
GC Column (1): \_\_\_\_\_ ID: \_\_\_\_\_ (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.19          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.17          | 16.2 |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES****WS-AOC12W-SO-42-2A***SW-846 8082A*

Lab Sample ID: 17G0683-16 Date(s) Analyzed: 07/26/2017 07/26/2017  
Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_  
GC Column (1): \_\_\_\_\_ ID: \_\_\_\_\_ (mm) GC Column (2): \_\_\_\_\_ ID: \_\_\_\_\_ (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.45          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.40          | 11.8 |

**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***WS-AOC12W-SO-42-3**Lab Sample ID: 17G0683-18 Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.60          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.56          | 6.9  |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B182259-BS1 Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 0.0  |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 6.9  |



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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS Dup

Lab Sample ID: B182259-BSD1 Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.16          | 11.8 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 13.3 |

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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES***SW-846 8082A***Matrix Spike**Lab Sample ID: B182259-MS1 Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.16          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.20          | 22.2 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.14          | 6.9  |

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# IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

Matrix Spike Dup

Lab Sample ID: B182259-MSD1 Date(s) Analyzed: 07/26/2017 07/26/2017

Instrument ID (1): Instrument ID (2):

GC Column (1): ID: (mm) GC Column (2): ID: (mm)

| ANALYTE      | COL | RT    | RT WINDOW |       | CONCENTRATION | %RPD |
|--------------|-----|-------|-----------|-------|---------------|------|
|              |     |       | FROM      | TO    |               |      |
| Aroclor-1016 | 1   | 0.000 | -0.030    | 0.030 | 0.17          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.15          | 12.5 |
| Aroclor-1260 | 1   | 0.000 | -0.030    | 0.030 | 0.15          |      |
|              | 2   | 0.000 | -0.030    | 0.030 | 0.13          | 14.3 |

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|       |                                                                                                                                                                                          |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| *     | QC result is outside of established limits.                                                                                                                                              |
| †     | Wide recovery limits established for difficult compound.                                                                                                                                 |
| ‡     | Wide RPD limits established for difficult compound.                                                                                                                                      |
| #     | Data exceeded client recommended or regulatory level                                                                                                                                     |
| ND    | Not Detected                                                                                                                                                                             |
| RL    | Reporting Limit                                                                                                                                                                          |
| DL    | Method Detection Limit                                                                                                                                                                   |
| MCL   | Maximum Contaminant Level                                                                                                                                                                |
|       | Percent recoveries and relative percent differences (RPDs) are determined by the software using values in the calculation which have not been rounded.                                   |
|       | No results have been blank subtracted unless specified in the case narrative section.                                                                                                    |
| RL-12 | Elevated reporting limit due to matrix interference.                                                                                                                                     |
| S-01  | The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences. |

**CERTIFICATIONS**
**Certified Analyses included in this Report**

| Analyte                              | Certifications    |
|--------------------------------------|-------------------|
| <b><i>CTDEP ETPH in Soil</i></b>     |                   |
| CT ETPH                              | CT                |
| <b><i>SW-846 6010C-D in Soil</i></b> |                   |
| Arsenic                              | CT,NH,NY,ME,VA,NC |
| <b><i>SW-846 8082A in Soil</i></b>   |                   |
| 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          |
| <b><i>SW-846 8270D in Soil</i></b>   |                   |
| Acenaphthene                         | CT,NY,NH,ME,NC,VA |
| Acenaphthylene                       | CT,NY,NH,ME,NC,VA |
| Anthracene                           | CT,NY,NH,ME,NC,VA |
| Benzo(a)anthracene                   | CT,NY,NH,ME,NC,VA |
| Benzo(a)pyrene                       | CT,NY,NH,ME,NC,VA |
| Benzo(b)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Benzo(g,h,i)perylene                 | CT,NY,NH,ME,NC,VA |
| Benzo(k)fluoranthene                 | CT,NY,NH,ME,NC,VA |
| Chrysene                             | CT,NY,NH,ME,NC,VA |
| Dibenz(a,h)anthracene                | CT,NY,NH,ME,NC,VA |
| Fluoranthene                         | CT,NY,NH,ME,NC,VA |
| Fluorene                             | CT,NY,NH,ME,NC,VA |
| Indeno(1,2,3-cd)pyrene               | CT,NY,NH,ME,NC,VA |
| 2-Methylnaphthalene                  | CT,NY,NH,ME,NC,VA |
| Naphthalene                          | CT,NY,NH,ME,NC,VA |
| Phenanthrene                         | CT,NY,NH,ME,NC,VA |
| Pyrene                               | CT,NY,NH,ME,NC,VA |

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The CON-TEST Environmental Laboratory operates under the following certifications and accreditations:

| Code  | Description                                  | Number        | Expires    |
|-------|----------------------------------------------|---------------|------------|
| AIHA  | AIHA-LAP, LLC - ISO17025:2005                | 100033        | 02/1/2018  |
| MA    | Massachusetts DEP                            | M-MA100       | 06/30/2018 |
| CT    | Connecticut Department of Public Health      | PH-0567       | 09/30/2017 |
| NY    | New York State Department of Health          | 10899 NELAP   | 04/1/2018  |
| NH-S  | New Hampshire Environmental Lab              | 2516 NELAP    | 02/5/2018  |
| RI    | Rhode Island Department of Health            | LAO00112      | 12/30/2017 |
| NC    | North Carolina Div. of Water Quality         | 652           | 12/31/2017 |
| NJ    | New Jersey DEP                               | MA007 NELAP   | 06/30/2018 |
| FL    | Florida Department of Health                 | E871027 NELAP | 06/30/2018 |
| VT    | Vermont Department of Health Lead Laboratory | LL015036      | 07/30/2018 |
| ME    | State of Maine                               | 2011028       | 06/9/2019  |
| VA    | Commonwealth of Virginia                     | 460217        | 12/14/2017 |
| NH-P  | New Hampshire Environmental Lab              | 2557 NELAP    | 09/6/2017  |
| VT-DW | Vermont Department of Health Drinking Water  | VT-255716     | 06/12/2018 |
| NC-DW | North Carolina Department of Health          | 25703         | 07/31/2018 |

