



Via FedEx

March 21, 2018

Ms. Kimberly N. Tisa, PCB Coordinator  
U.S. Environmental Protection Agency  
5 Post Office Square, Suite 100 (OSRR07-2)  
Boston, Massachusetts 02109-3912

Re: Soils Excavation Modification  
Fairfield Ludlowe High School, Fairfield, Connecticut

Dear Ms. Tisa:

On behalf of the Town of Fairfield, Woodard & Curran has prepared this Modification to the November 24, 2015 PCB Remediation Plan Addendum for the removal and off-site disposal of polychlorinated biphenyl (PCB) impacted soils located adjacent to the Fairfield Ludlowe High School in Fairfield, Connecticut.

### **Background**

The November 2015 PCB Remediation Plan Addendum presented an evaluation of existing data and developed proposed actions (either remove soils, further characterization, or no further assessment) by building elevation and courtyard area. A total of 20 separate segments were identified in the Addendum with seven areas identified for soil excavation, four areas identified for additional characterization (including three of the seven soil removal areas), and twelve areas identified for no further assessment. In a February 29, 2016 correspondence, the US Environmental Protection Agency (EPA) agreed with conducting the pre-removal lateral extent sampling program as proposed in the November 24, 2015 Addendum followed by a soil plan modification submittal based on the results.

This modification has been developed to summarize the results of the additional characterization sampling and the pre-excavation verification sampling conducted in 2016 and 2017 and present a revised soil remediation plan.

In addition, this modification provides a summary of excavation and off-site disposal activities conducted in December 2015 and March 2018 in the West Courtyard area where PCBs were present in three samples at concentrations above the Connecticut Department of Energy and Environmental Protection (CTDEEP) Significant Environmental Hazard (SEH) threshold of 15 parts per million (ppm) (PCBs were reported at concentrations of 18, 20.2, and 62 ppm). Details of these excavations, including the analytical results from verification sampling, are provided in Attachment A and have been incorporated into this Modification, as applicable (i.e., modifications to the extent of required excavations).

A site plan showing the locations of the various investigation areas and soil samples collected to date is presented on Figure 1.

### **Additional Characterization Sampling**

The additional characterization sampling was conducted in April 2016 from the four areas identified in the November 2015 Soil Plan Addendum. In addition to the characterization sampling within these four areas, characterization samples were collected from two additional areas off the northwest and northeast corners of the building.



As summarized below, all samples were either non-detect for PCBs or detected PCBs at concentrations  $\leq 1$  ppm:

- West Elevation (1971/1972 Area) – 2 samples were collected from the grassy area on the southwest corner of the building. Analytical results indicated that PCBs were present at a concentration of 0.13 ppm from the sample adjacent to the building and  $< 0.12$  ppm at a distance of 24" from the building.
- East Elevation (1971/1972 West Area) - 2 samples were collected from a grassy area on the northeast side of the 1971/1972 east building (one sample was collected adjacent to the building and the second at a distance of 24" from the building). Analytical results indicated that PCBs were non-detect ( $< 0.11$  ppm and  $< 0.12$  ppm) in both samples.
- East Courtyard (1950 Area) – 2 samples were collected from a grassy area in the southwest corner of the east courtyard (one sample was collected adjacent to the building and the second at a distance of 24" from the building). Analytical results indicated that PCBs were present at concentrations of 0.16 and 0.19 ppm, respectively.
- North Elevation (1961/1962 East Area) – 2 samples were collected from a grassy area on the north side of the building (one sample was collected adjacent to the building and the second at a distance of 24" from the building). Analytical results indicated that PCBs were present at concentrations of 1.02 and 1.03 ppm, respectively.
- Additional Characterization Sampling - – 2 samples were collected from each area at a distance of 24" from the building. PCBs were reported as non-detect in 3 of the 4 samples ( $< 0.11$ ,  $< 0.12$ , and  $< 0.14$  ppm) and at a concentration of 0.25 ppm in the 4<sup>th</sup> sample (this result was consistent with previous data collected off the northwest corner of the 1971/1972 area).

Based on the results of the additional characterization samples (PCBs non-detect or  $\leq 1$  ppm), soils within the above areas are not planned to be removed as part of the PCB remediation activities. A summary of the additional characterization sampling conducted in these areas is provided on Table 1 and the complete analytical laboratory reports are provided in Attachment B. The locations of these characterization samples are presented on Figure 1.

### **Summary of Excavation Areas**

As described in the Addendum, a sub-set of the pre-excavation lateral verification sampling was conducted at each of the excavation areas to evaluate the lateral extent of PCBs  $> 1$  ppm prior to excavation. This pre-excavation sampling also included a sub-set of the vertical verification samples (approximately 1 per area) collected from depths of 12 to 15 inches below ground surface (in bgs).

A summary of the pre-excavation verification sample results is presented on Table 2 and the locations are shown on Figure 1. The complete analytical laboratory reports are provided in Attachment B. These results were used to refine the proposed excavation areas, as depicted on Figure 1 and further described on Table 3. Also included on Table 3 is a summary of the verification sampling plan (pre- and post removal).

A brief description of the excavation area and verification program in each area is provided below. More detailed drawings showing the individual areas requiring excavation and the verification sample locations are presented on Figures 2 through 6.



#### West Elevation 1971/1972 Area

Based on the data collected to date, the excavation in this area will extend 94 feet along the building to a distance of 2 feet away from the building and to a depth of 1 foot bgs. The extent of the excavation is depicted on Figure 2.

Prior to excavation, 1 lateral verification sample will be collected at the northern end of the excavation area at a distance of 24" from the building (for a total of 5 samples; to complete the 20-foot sampling frequency). Following excavation, verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 feet of excavation (10 samples), as described on Table 3 and shown on Figure 2.

#### South Elevation 1961/1962 Area

Based on the data collected to date, the excavation in this area will extend approximately 37.5 feet along the building (from concrete pad to concrete pad) to a distance of 2 feet from the building and to a depth of 1 foot bgs. The extent of the excavation is depicted on Figure 3.

Prior to excavation, 1 lateral verification sample will be collected at a distance of 24" from the building to complete the 20-foot sampling frequency. Following excavation, additional verification samples will be collected from the base of the excavation at a frequency of 1 sample per 10 feet of excavation (3 samples), as described on Table 3 and shown on Figure 3.

#### North Elevation 1961/1962 Area

Based on the data collected to date, the lateral extent of the excavation away from the building to the east of the asphalt walk has been confirmed at 24" from the building. To the west of the asphalt walk (approximately 48 feet long) the excavation is proposed to be extended to a distance of 36" from the building. Both areas will be excavated to a depth of 1 foot bgs. The extent of the excavation is depicted on Figure 4.

Prior to excavation, 1 verification sample will be collected at a distance of 36" from the building to the west of the asphalt walk and 1 sample will be collected at a distance of 48" from the building to the east of the asphalt walk to complete the 20 foot sampling frequency. Following excavation, verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 feet of excavation (7 samples), as described on Table 3 and shown on Figure 4.

#### West Courtyard

The west courtyard has been divided into three separate areas as described below.

##### Former ≥ 50 ppm Area

One area along the 1961-1962 portion of the building was identified through the initial characterization sampling as containing PCBs  $\geq$  50 ppm. This area was approximately 57 feet long and bounded to the west by the asphalt pad/metal gate and to the east by additional characterization samples. In December 2015, soils containing PCBs above the CTDEEP SEH threshold (15 ppm) were excavated and removed for off-site disposal as  $\geq$  50 ppm PCB Remediation Wastes (see Attachment A for additional information).

Based on the data collected to date, the excavation in this area will extend 57 feet along the building to a distance of 6 feet from the building and to a depth of 30 in bgs. Fill materials placed into the excavation in December 2015 will be removed prior to the excavation for re-use as fill (as marked by the placement of polysheeting at the former vertical extent of the excavation). The extent of the excavation is depicted on Figure 5.

Following excavation, verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 l.f. of excavation (6 samples), as described on Table 3 and shown on Figure 5.



#### < 50 ppm West Area

A portion of this area ten feet long and two feet wide was identified through characterization sampling in December 2017 as containing PCBs above the CTDEEP SEH threshold of 15 ppm. These soils were excavated and removed for off-site disposal in March 2018. Following excavation one verification sample was collected from the base of the excavation and PCBs were reported at a concentration of 1.17 ppm (see Attachment A for additional information). Following excavation, polysheeting was placed in the excavation, the excavation was covered with plywood sheeting, and fencing was installed around the area.

Based on the data collected to date, the excavation in this area will extend approximately 93 feet along the building and include all soils between the building and the asphalt walk (a 6 ft wide area). Based on the results from the SEH excavation in this area and the former > 50 ppm area, the excavation will be extended to a depth of 30" bgs. The extent of the excavation is depicted on Figure 5.

Following excavation, samples will be collected from the base of the excavation at a frequency of 1 sample for every 10 feet of excavation (10 samples). In addition, to verify that PCBs > 1 ppm do not extend under the asphalt walk, an additional 4 samples will be collected from the sidewall of the excavation immediately below the asphalt. These samples are described on Table 3 and shown on Figure 5.

#### < 50 ppm East Area

This area is located along the 1961/1962 portion of the building to the east of the SEH excavation area. Based on the data collected to date, the excavation in this area will extend approximately 123 feet along the building and to a depth of 1 ft. The excavation will extend to a distance of 2 feet from the building over the majority of this excavation area and to a distance of 4 feet from the building over the western most 50 ft of the excavation (to the west of the southern "jog" as shown on Figures 1 and 5). The extent of the excavation is depicted on Figure 5.

Prior to excavation, 2 verification samples will be collected at a distance of 48" from the building along the western portion of the excavation area. Following excavation, verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 feet of excavation (12 samples), as described on Table 3 and shown on Figure 5.

#### East Courtyard

There are two separate excavation areas within the east courtyard.

##### East Courtyard – 1961/1962 Northeast Area

Based on the data collected to date, the excavation extends along the entire north side of the courtyard and along approximately 41 feet of the east side of the courtyard. Along the north side, the excavation extends various distances away from the building in each of three areas, which are separated by concrete walkways. Along the westernmost portion, the excavation will extend to a distance of 4 feet from the building while along the eastern end the excavation will extend to a distance of 6 feet from the building. In the center portion of the excavation, impacted soils will be removed from the building to the asphalt walkway which is in a semi-circle at distances of between 3 and 8 feet from the building. Along the eastern side of the courtyard, the excavation will extend to a distance of 3 feet from the building. In each of the above described areas, the vertical extent of the excavation will be to a depth of 1 foot bgs. The extent of the excavation is depicted on Figure 6.

Prior to the excavation, 6 additional samples will be collected away from the buildings as shown on Figure 6 to complete the 20-foot verification frequency. Following excavation, verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 feet of excavation (12 samples), as described on Table 3 and shown on Figure 6.



### 1950s West Area

Based on the data collected to date, the excavation in this area will extend over an area 17 feet long to a distance of 2 feet from the building and to a depth of 1 foot bgs.

Following excavation to a depth of 1 feet bgs, additional verification samples will be collected from the base of the excavation at a frequency of approximately 1 sample per 10 feet of excavation (2 samples), as described on Table 3 and shown on Figure 6.

### **Site Preparation and Controls**

Prior to any work, the boundaries of the excavation area will be marked, and a permit number will be obtained from Call Before You Dig. Access to the active work areas will be controlled through the overall construction site boundaries and daily communication to other site workers regarding the locations and types of work being conducted on a daily basis and through the installation of caution/barrier tape around the excavation areas.

Dust monitoring along the perimeter of the excavation areas (in the support work zones) will be conducted at a frequency of one reading every two hours during active soil removal and handling. Dust concentrations will be measured using a suitable real time aerosol particulate monitor capable of determining ambient air fugitive dust concentrations to 0.001 milligrams per cubic meter ( $\text{mg}/\text{m}^3$ ). If visible dust is observed or if dust levels exceed 0.1  $\text{mg}/\text{m}^3$  above background, then a temporary work stoppage to employ additional dust suppression techniques to mitigate fugitive dust shall be initiated.

### **Soil Excavation**

Excavation of soils shall be conducted using an excavator and transferred into the bucket of a bobcat or small loader for transport of the soils to lined and labeled roll-off containers staged in pre-designated temporary waste storage areas. Polysheeting will be placed on the ground around the excavation and the loading area to prevent impacts to areas outside the excavation. The storage areas will be located within the parking areas (i.e., on asphalt) around the school with the specific location selected based on the area of excavation.

Following the excavation, visual inspections will be conducted to confirm the required extent of removals and verification samples will be collected as described above.

### **Waste Management and Equipment Decontamination**

Excavated materials will be managed for disposal as < 50 ppm PCB remediation wastes and State of Connecticut Regulated Waste (CR01) to a non-hazardous waste landfill permitted to accept such waste (e.g., Waste Management's Turnkey Landfill in Rochester, NH or equivalent facility). Soils will be stored on-site in secure, lined, and covered DOT approved waste containers pending off-site disposal. Materials generated during the excavation (polysheeting, used PPE, decontamination materials) will be managed with the soils for off-site disposal as PCB remediation wastes.

At the completion of the excavation in each area, any non-disposable equipment will be decontaminated in accordance with 40 CFR 761.79. A gross decontamination step will be performed to physically remove residual materials from the equipment followed by a scrub using detergent and brushes. A final wipe of the equipment will then be conducted using rags dampened with a citrus based cleaner or d-limonene based product. Free liquids are not intended to be generated as part of the decontamination process.



## Site Restoration

Final restoration of each area will not be completed until the results of the verification samples have been received and it has been determined that no additional excavation is required. The excavation areas will be backfilled and restored to grade as per project requirements.

## Schedule and Next Steps

The current project schedule includes the excavation of PCB impacted soils following the completion of the window and door removal project in 2018. Following completion of the soil removal activities, a description of the work activities, verification analytical results, volumes of disposed materials, and copies of waste disposal documentation will be incorporated into the overall project PCB Completion Report and submitted to EPA.

If you have any comments, questions, or require further information, please do not hesitate to e-mail or call me at the number listed above.

Sincerely,

WOODARD & CURRAN, INC.

A handwritten signature in blue ink that appears to read "George J. Franklin".

George J. Franklin, CHMM  
Technical Manager

A handwritten signature in blue ink that appears to read "Jeffrey A. Hamel".

Jeffrey A. Hamel, LSP, LEP  
Senior Principal

Enclosures:    Table 1 – Summary of Additional Soil Characterization Sampling Results  
                    Table 2 – Summary of Pre-Excavation Soil Verification Sampling Results  
                    Table 3 – PCB Remedial Areas and Proposed Verification Sampling Plan  
                    Figure 1 – Soil Excavation Areas and Sample Locations (Updated)  
                    Figures 2 through 6 – PCB Excavation Areas (Close-up)  
                    Attachment A – PCB Remediation Update – Significant Environmental Hazard Excavation Reports  
                    Attachment B – Laboratory Analytical Data

Cc: Gary Trombley – CT DEEP – Hartford, CT

**TABLE 1**

**Summary of Additional Soil Characterization Sampling Results**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Sample Name	Distance from Building (inches)	Sample Date	Concentration (ppm)
West	1971-1972	LC-CS-107	0"	4/13/2016	0.13
		LC-CS-108	24"	4/13/2016	< 0.12
East	1971-1972	LS-CS-100	0"	4/13/2016	< 0.11
		LC-CS-101	24"	4/13/2016	< 0.12
East Courtyard	1950 (west)	LC-CS-145	0"	4/13/2016	0.16
		LC-CS-146	24"	4/13/2016	0.19
North	1961-1962	LC-CS-117	0"	4/13/2016	1.03
		LC-CS-118	24"	4/13/2016	1.02
Northwest Corner	1971-1972	LS-VS-102	24"	4/13/2016	< 0.11
		LS-VS-103	24"	4/13/2016	0.25
Northeast Corner	1971-1972	LS-VS-114	24"	4/13/2016	< 0.14
		LS-VS-115	24"	4/13/2016	< 0.12

**Notes:**

Soil samples collected in accordance with the November 2015 Soil Excavation Addendum to the Notification from a depth of 0 to 3" below ground surface.

Soil samples submitted for extraction via USEPA method 3540C (Soxhlet Extraction) and analyzed for PCBs via USEPA method 8082.

TABLE 2

**Summary of Pre-Excavation Verification Soil Sampling Results**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Proposed Soil Excavation Area	Sampling Rationale	Sample Name	Sample Date	Distance from Building (inches)	Sample Depth (inches)	Concentration (ppm)
			Pre-Removal Depth Verification	LS-VS-111	4/13/2016	0"	12-15"	<0.12
West	1971-1972	one area (est: 94 ft long 2 ft wide and 1 ft deep) Assumed volume: 7 cy of in place soils	Pre-Removal Lateral Verification Sampling	LS-VS-104	4/13/2016	0"	0-3"	0.57
				LS-VS-105	4/13/2016	24"	0-3"	<0.12
				LS-VS-106	4/13/2016	24"	0-3"	<0.12
South	1961-1962	one area (est: 37.5 ft long 2 ft wide and 1 ft deep) Assumed volume: 3 cy of in place soils	Pre-Removal Depth Verification Pre-Removal Lateral Verification Sampling	LS-VS-109	4/13/2016	0"	12-15"	<0.11
				LS-VS-110	4/13/2016	24"	0-3"	0.49
			Pre-Removal Depth Verification	LS-VS-116	4/13/2016	0"	12-15"	0.67
				LS-VS-112	4/13/2016	24"	0-3"	<b>2.8</b>
North	1961-1962	one area (est: 82 ft long 2 ft wide and 1 ft deep) Assumed volume: 6 cy of in place soils	Pre-Removal Lateral Verification Sampling	LS-VBS-200	12/2/2017	36"	0-3"	0.36
				LS-VBS-201	12/2/2017	36"	0-3"	0.43
				LS-VS-113	4/13/2016	24"	0-3"	0.19
				LS-VBS-204	12/2/2017	48" (imm. past concrete)	0-3"	0.11
			Pre-removal Depth Verification Pre-removal Lateral Extent Verification	LS-VS-124	4/13/2016	0"	30-33"	<0.11
West Courtyard	1961-1962 (south)	>50 ppm Area (est: 57 ft long 6 ft wide and 30 in deep)	Pre-removal Lateral Extent Verification	LS-VS-122	4/13/2016	72"	0-3"	0.31
				LS-VS-123	4/13/2016	72"	0-3"	<0.12

TABLE 2

**Summary of Pre-Excavation Verification Soil Sampling Results**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Proposed Soil Excavation Area	Sampling Rationale	Sample Name	Sample Date	Distance from Building (inches)	Sample Depth (inches)	Concentration (ppm)
				LS-VS-119	4/13/2016	24"	0-3"	1.92
				LS-VS-120	4/13/2016	24"	0-3"	3.05
< 50 ppm West Area (est 93 ft long 6 ft wide and 2 ft deep)		< 50 ppm West Area (est 93 ft long 6 ft wide and 2 ft deep) Pre-removal Lateral Extent Verification (does not include samples collected as part of the March 2018 SEH excavation)		LS-VS-121	4/13/2016	24"	0-3"	0.58
				LS-VBS-213	12/2/2017	72"	0-3"	1.1
				LS-VBS-214	12/2/2017	72"	0-3"	0.83
				LS-VS-128	4/13/2016	0"	12-15"	0.19
				LS-VS-125	4/13/2016	24"	0-3"	0.66
				LS-VS-126	4/13/2016	24"	0-3"	2.9
				LS-VBS-216	12/2/2017	36"	0-3"	1.66
				LS-VS-127	4/13/2016	24"	0-3"	0.83
			< 50 ppm East Area (est 123 ft long 2 ft wide and 1 ft deep - extends to 4 ft wide over 50 ft area) Pre-removal Lateral Extent Verification					
				LS-VS-129	4/13/2016	24"	0-3"	0.15
				LS-VS-130	4/13/2016	24"	0-3"	0.5
				LS-VS-131	4/13/2016	24"	0-3"	0.3
				LS-VS-132	4/13/2016	24"	0-3"	0.75
			one area (est: 41 ft long 3 ft wide and 1 ft deep) Assumed volume: 4.5 cy of in place soils	Pre-removal Depth Verification	LS-VS-141	4/13/2016	0"	12-15"
				Pre-removal Lateral Extent Verification	LS-VS-139	4/13/2016	36"	0.87
				Pre-removal Lateral Extent Verification	LS-VS-140	4/13/2016	0"	0.95
	West Courtyard	1961-1962 (south)						
	East Courtyard	1961-1962 (east)						

TABLE 2

**Summary of Pre-Excavation Verification Soil Sampling Results**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Proposed Soil Excavation Area	Sampling Rationale	Sample Name	Sample Date	Distance from Building (inches)	Sample Depth (inches)	Concentration (ppm)
		Area 1 (est. 16 ft long 4 ft wide and 1 ft deep) Assumed volume: 2.4 cy of in place soils	Pre-removal Lateral Extent Verification	LS-VS-133	4/13/2016	36"	0-3"	2.03
				LS-VBS-209	12/2/2017	48"	0-3"	0.69
			Pre-removal Depth Verification	LS-VS-137	4/13/2016	0"	12-15"	<0.12
				LS-VS-134	4/13/2016	36"	0-3"	0.77
				LS-VS-135	4/13/2016	36"	0-3"	1.1
			Pre-removal Lateral Extent Verification Assumed volume: 5.5 cy of in place soils	LS-VBS-207	12/2/2017	48"	0-3"	0.91
				LS-VBS-208	12/2/2017	48"	0-3"	2.8
				LS-VS-136	4/13/2016	36"	0-3"	2.1
				LS-VS-138	4/13/2016	36"	0-3"	2.5
			Pre-removal Lateral Extent Verification Assumed Volume: 6 cy of in place soils	LS-VS-205	12/2/2017	48"	0-3"	0.72
				LS-VBS-206	12/2/2017	48"	0-3"	1.5
				LS-VBS-210	12/2/2017	72"	0-3"	0.33
			Pre-removal Depth Verification one area (est: 17 ft long 2 ft wide and 1 ft deep) Assumed volume: 2 cy of in place soils	LS-VS-144	4/13/2016	0"	12-15"	<0.12
				LS-VS-142	4/13/2016	24"	0-3"	<0.13
				LS-VS-143	4/13/2016	24"	0-3"	0.26

**Notes:**

Samples collected in accordance with the November 2015 Soil Excavation Addendum to the Notification.  
Soil samples submitted for extraction via USEPA method 3540C (Soxhlet Extraction) and analyzed for PCBs via USEPA method 8082.

TABLE 3

**PCB REMEDIAL AREAS AND PROPOSED VERIFICATION SAMPLING PLAN**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Proposed Soil Excavation Area	Proposed Verification Samples	
			Pre-removal Lateral Extent Verification (approximately 1 per 20 l.f. of excavation)	Post-removal Depth Verification (approximately 1 per 10 l.f. of excavation)
West	1971-1972	Excavation extends laterally along building to hardscape or grassy area  est. 94 ft in length to distance of 2 ft from building and depth of 1 ft bgs  Assumed volume: 7 cy of in place soils	Existing data: 5 samples (2 ND and 3 $\leq$ 1 ppm with max. of 1.04 ppm); 4 located 2 ft from building and 1 located at north end of excavation area against the building	Existing data: 1 sample at 12 inches bgs ( $< 0.12$ ppm)
South	1961-1962	Excavation extends laterally along building to hardscape areas  est. 37.5 ft in length to a distance of 2 ft from building and depth of 1 ft bgs  Assumed volume: 3 cy of in place soils	Existing data: 2 samples at 2 ft from building (0.18 and 0.49 ppm)  New data: 1 sample 2ft from the building	Existing data: 1 sample at 12 inches bgs ( $< 0.11$ ppm)  New data: 3 samples collected at base of excavation; includes samples under hardscape surfaces on either end of the excavation
North	1961-1962	Area 1: Excavation to the west of the asphalt pad, extends laterally along building to hardscape surfaces and retaining walls  est: 48 ft in length to a distance of 3ft from building and depth of 1 ft bgs  Assumed volume: 5.5 cy of in place soils  Area 2: Excavation to the east of asphalt pad, extends laterally along the building to hardscape surface and building wall  est: 15 ft in length to a distance of 2 ft from the building and depth of 1 ft bgs  Assumed volume: 1.1 cy of in place soils	Existing data: 2 samples at 3 ft from the building  New data: 1 samples at 3 ft from the building	Existing data: 1 sample at 12 inches bgs (0.67 ppm)  New data: 5 samples collected at base of excavation; includes samples under hardscape surfaces on either end of the excavation
			Existing data: 1 sample at 2 ft from building (0.19 ppm);  New data: 1 sample at 4 ft from the building	Existing data: none  New data: 2 samples collected at base of excavation; includes one sample under hardscape surface on west end of excavation

TABLE 3

**PCB REMEDIAL AREAS AND PROPOSED VERIFICATION SAMPLING PLAN**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

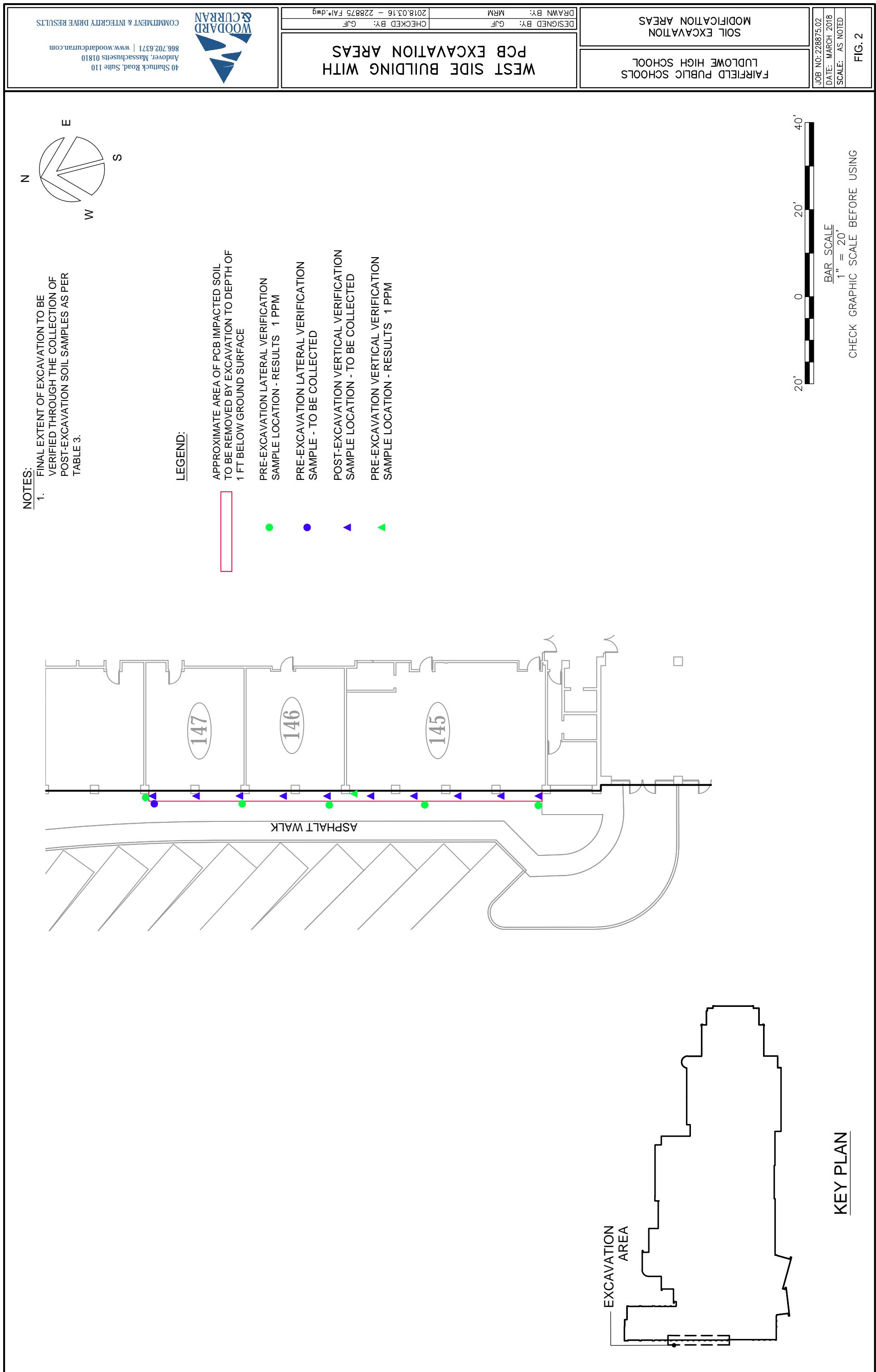
Building Elevation	Building Portion	Proposed Soil Excavation Area	Proposed Verification Samples
		Pre-removal Lateral Extent Verification (approximately 1 per 20 l.f. of excavation)	Post-removal Depth Verification (approximately 1 per 10 l.f. of excavation)
	Area 1: Former >50 ppm Area; excavation extends laterally along the building est: 57 ft in length to a distance of 6 ft from the building (to the asphalt walk) and a depth of 30 in bgs; upper 24 inches over the majority of the area has already been removed - see Figures 1 and 5 Assumed volume: 11 cy of in place soils remaining (< 50 ppm)	Existing data: 2 samples at 6 ft from the building (< 0.12 and 0.31 ppm)	Existing data: 1 sample at 30 inches bgs (< 0.11 ppm)
	Area 2: < 50 ppm West Area est: 93 ft in length to a distance of 6 ft from the building (to the asphalt walk) and to a depth of 1 ft bgs except in the former SEH excavation area where it will extend to 30 in bgs Assumed volume: 20.6 cy of in place soils	Existing data: 2 samples at 6 ft from the building (0.83 and 1.1 ppm)	Existing data: 0 samples
West Courtyard	1961-1962 (south)	New data: 4 samples beneath asphalt at edge of excavation	New data: 10 samples collected at base of excavation; includes samples under hardscape surfaces at ends of the excavation and 1 sample at 30 in bgs
	Area 3: < 50 ppm East Area est: 123 ft in length to a distance of 2 ft from the building and a depth of 1 ft bgs; extent away from the building increased to 4 ft over the western most 50 ft (from the "building jog" Assumed volume: 12.8 cy of in place soils	Existing data: 6 samples at 2 ft from building to east of "building jog" (0.15 to 0.83 ppm) and 2 samples at 2 and 3 ft from building in western most 50 foot area (2.9 and 1.66 ppm)	Existing data: 1 sample at 12 inches (0.19 ppm)
		New data: 2 samples at 4 ft from the building in western most 50 foot section	New data: 12 samples collected at base of excavation

TABLE 3

**PCB REMEDIAL AREAS AND PROPOSED VERIFICATION SAMPLING PLAN**  
**Fairfield Ludlowe High School, Fairfield Connecticut**

Building Elevation	Building Portion	Proposed Soil Excavation Area	Proposed Verification Samples	
			Pre-removal Lateral Extent Verification (approximately 1 per 20 l.f. of excavation)	Post-removal Depth Verification (approximately 1 per 10 l.f. of excavation)
		Excavation extends along the entire north side of courtyard and along the east side approximately 41 ft from the NE corner. Areas extend to distances of between 3 and 8 ft from the building and to a depth of 1 ft bgs - see Figures 1 and 6.	Existing data: 3 samples collected at distances of 3, 4, and 6 ft from the building (0.87, 0.69, and 0.33 ppm, respectively) and 1 sample collected at the southern limit of the excavation at the base of the building (0.95 ppm)	Existing data: 2 samples 12 inches bgs (< 0.12 and 0.12 ppm)
1961-1962 (northeast)	East Courtyard	Assumed volume: 28.7 cy of in place soils	New data: 6 samples to be collected as follows: 3 samples at edge of asphalt in the center portion of the northern excavation, 2 samples to be collected 6 ft from the building in the eastern portion of the excavation along the northern wall, and 1 sample to be collected at a distance of 3 ft from the building at the southern end of the excavation along the eastern wall	New data: 12 samples collected at base of excavation
1950 (west)		Excavation extends laterally along the building to hardscape surfaces est: 17 ft long to a distance of 2 ft from the building and a depth of 1 ft bgs	Existing data: 2 samples 2 ft from the building (< 0.13 and 0.26 ppm); Assumed volume: 2 cy of in place soils	existing data: 1 sample 12 inches bgs (< 0.12 ppm) New data: none
				New data: 2 samples collected at base of excavation; includes 1 sample under hardscape surface at end of excavation





WOODARD & CURRAN  
40 Shattuck Road, Suite 110  
Andover, Massachusetts 01810  
866.702.6371 | www.woodardcurrant.com

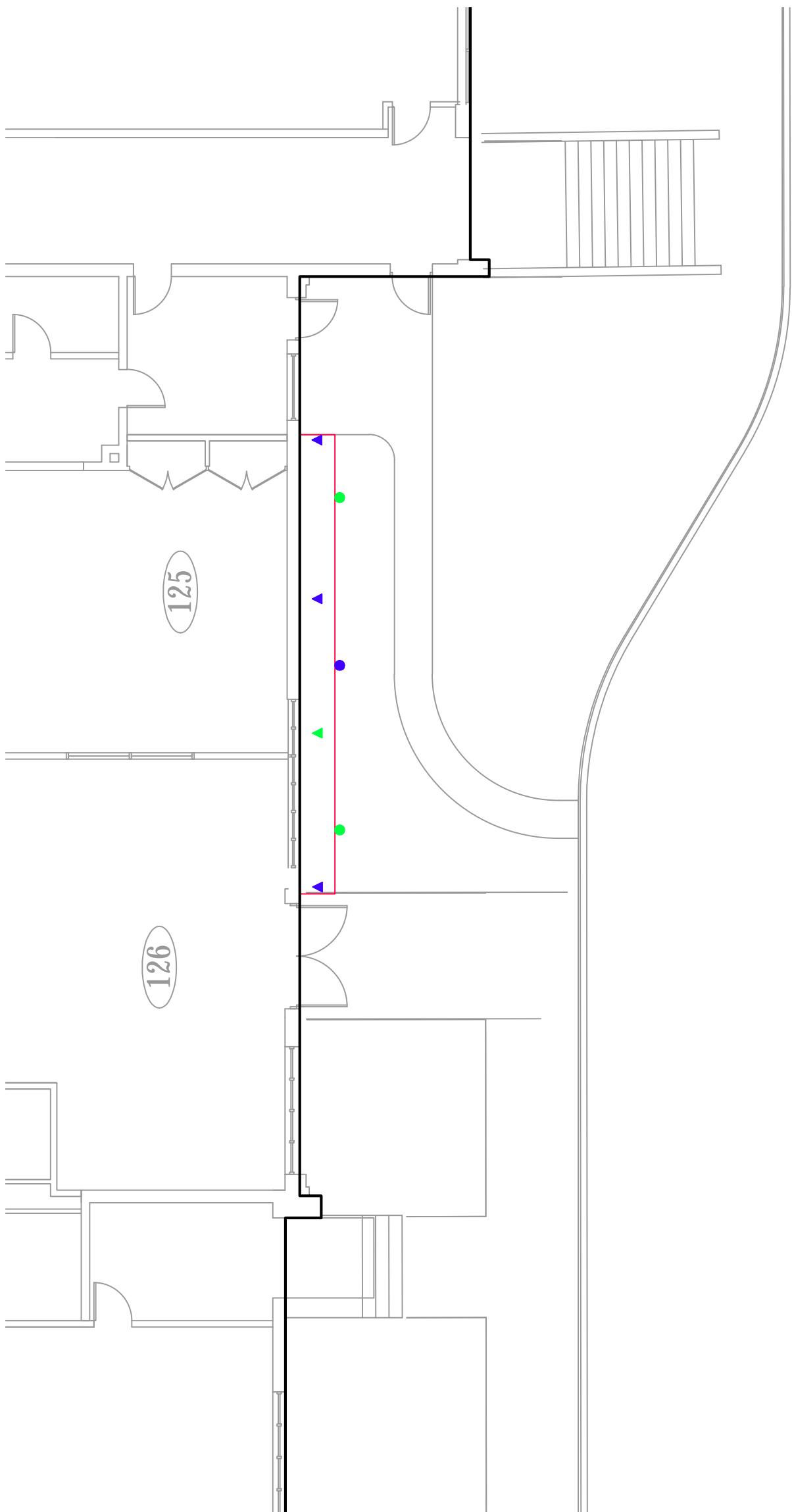
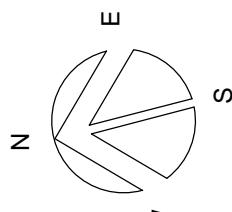
WOODARD &  
CURRAN

SOUTH SIDE BUILDING WITH  
PCB EXCAVATION AREAS

SOIL EXCAVATION AREAS  
MODIFICATION AREAS

JOB NO: 228875.02  
DATE: MARCH 2018  
SCALE: AS NOTED

FIG. 3



LEGEND:

1. APPROXIMATE AREA OF PCB IMPACTED  
SOIL TO BE REMOVED BY EXCAVATION TO  
DEPTH OF 1 FT BELOW GROUND SURFACE

PRE-EXCAVATION LATERAL VERIFICATION  
SAMPLE LOCATION - RESULTS 1 PPM

POST-EXCAVATION VERTICAL VERIFICATION  
SAMPLE LOCATION - TO BE COLLECTED

PRE-EXCAVATION VERTICAL VERIFICATION  
SAMPLE LOCATION - RESULTS 1 PPM

PRE-EXCAVATION LATERAL VERIFICATION  
SAMPLE - TO BE COLLECTED

CHECK GRAPHIC SCALE BEFORE USING

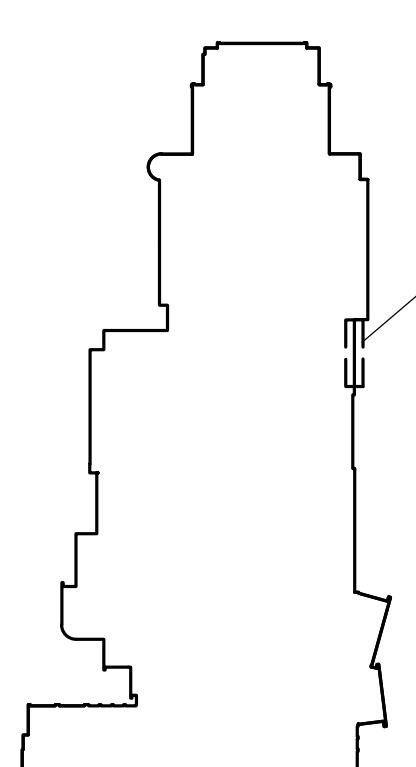
KEY PLAN

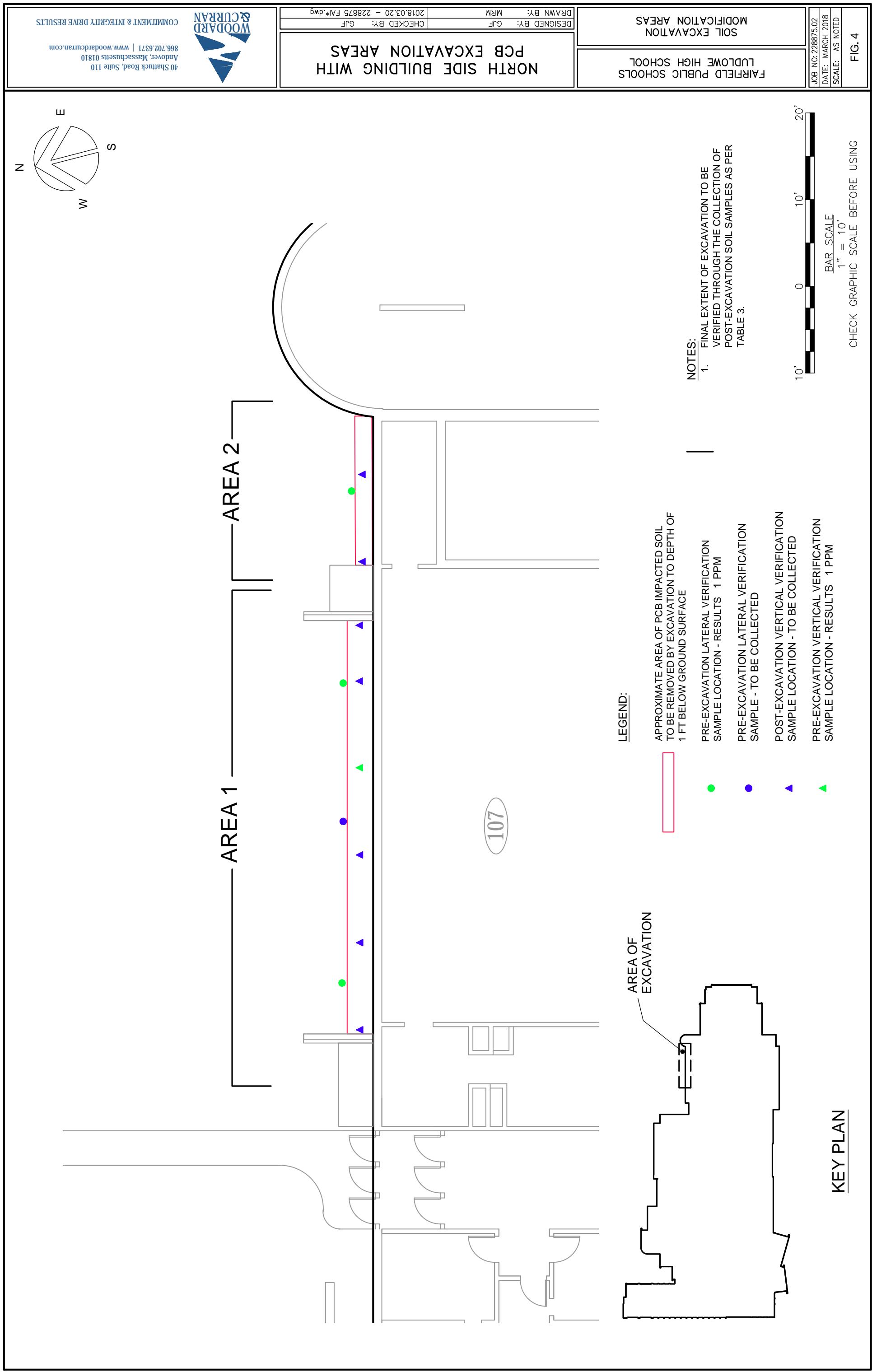
BAR SCALE  
 $1'' = 10'$

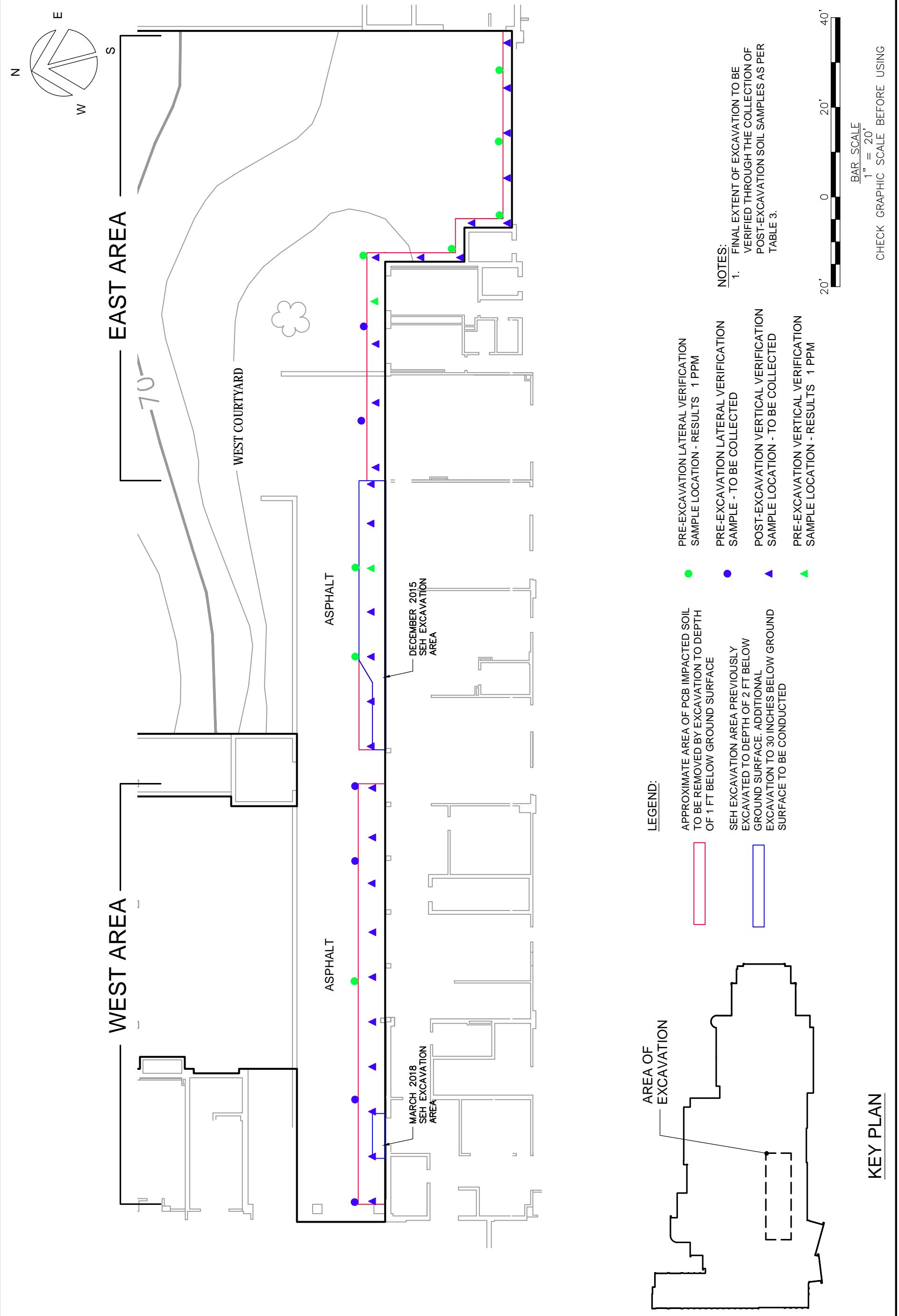
10' 0' 10' 20'

NOTES:

1. FINAL EXTENT OF EXCAVATION TO BE  
VERIFIED THROUGH THE COLLECTION OF  
POST-EXCAVATION SOIL SAMPLES AS PER  
TABLE 3.

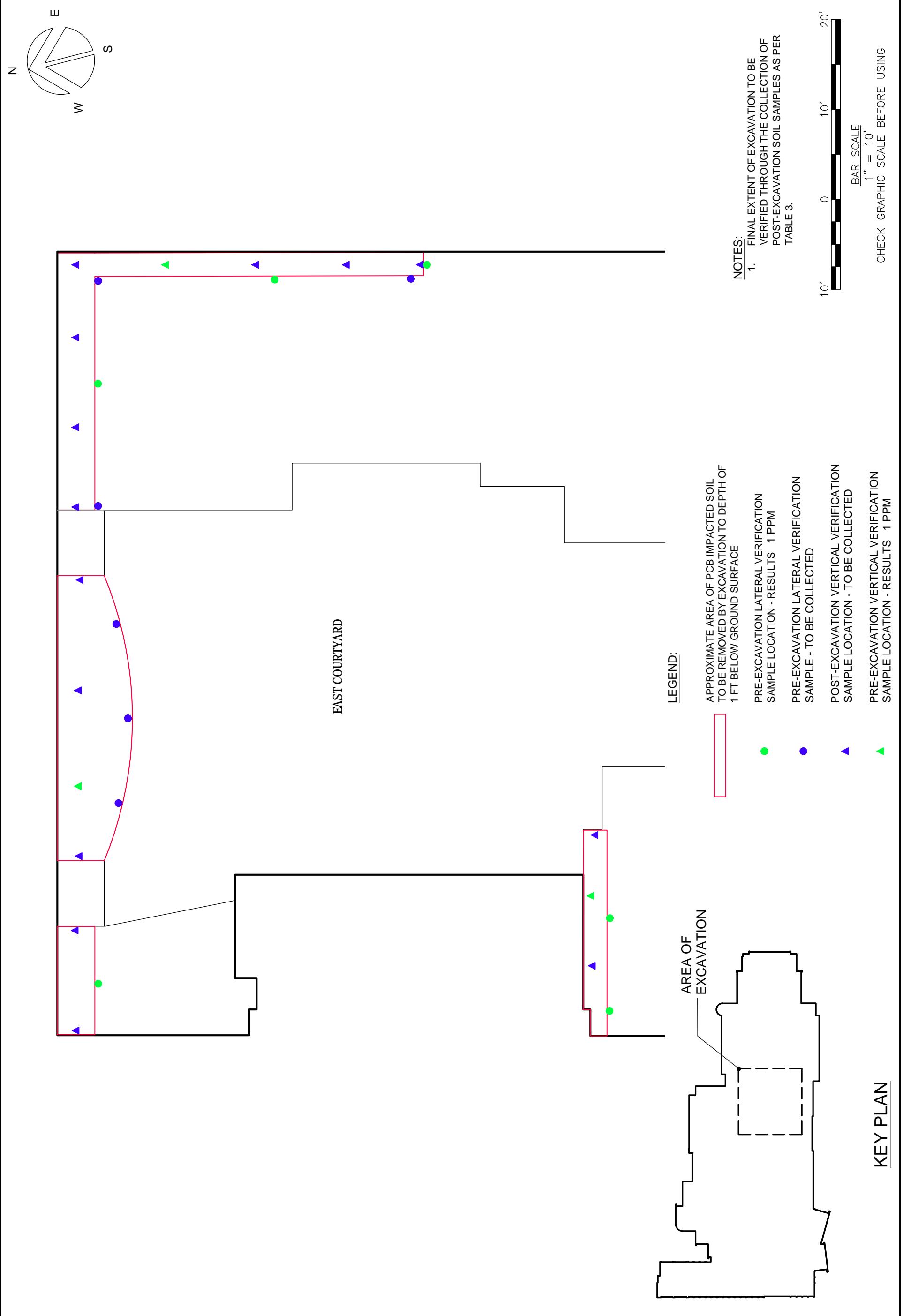






WOODWARD & CURRAN		SOIL EXCAVATION AREAS		MODIFICATION AREAS	
DESIGNED BY: GJF	CHECKED BY: GJF	DRAWN BY: MRM	2018.03.16 - 228875.FAI.dwg	COMMIMENT & INTEGRITY DRIVE RESULTS	
40 Shattuck Road, Suite 110 Andover, Massachusetts 01810 866.702.6371   www.woodwardcurranc.com				JOB NO: 228875.02	
				DATE: MARCH 2018	
				SCALE: AS NOTED	

FIG. 6





**ATTACHMENT A: PCB REMEDIATION UPDATE – SEH EXCAVATION REPORTS**



**COMMITMENT & INTEGRITY  
DRIVE RESULTS**

40 Shattuck Road  
Suite 110  
Andover, Massachusetts 01810  
[www.woodardcurran.com](http://www.woodardcurran.com)

T 866.702.6371  
T 978.557.8150  
F 978.557.7948

April 6, 2016

Mr. Sal Morabito  
Manager of Construction, Security & Safety  
Fairfield Public Schools  
501 Kings Highway East  
Fairfield, CT 06825

Re: PCB Remediation Update – Significant Environmental Hazard Excavation  
Fairfield Ludlowe High School  
Fairfield, Connecticut

Dear Mr. Morabito:

This Polychlorinated Biphenyl (PCB) Significant Environmental Hazard (SEH) Remediation Report has been prepared by Woodard & Curran to document the remediation of PCB impacted soils above the Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (CT DEEP RSRs) SEH value of 15 parts per million (ppm) within the West Courtyard at Ludlowe High School in Fairfield, Connecticut.

On October 13, 2015, soil samples were collected for PCB analysis in support of on-going characterization activities at the school. Two samples located in the West Courtyard contained PCBs at concentrations of 18 and 62 ppm, corresponding to more than 15 times the Residential Land Use Direct Exposure Concentration (DEC) of 1 ppm. Based on these results, a remediation plan for the excavation and off-site disposal of the impacted soils was developed and implemented in December 2015.

**Remediation Activities**

Excavation activities were conducted by AAIS, Corporation (AAIS) on December 28 and 29, 2015 while the school was not in session.

*Site Preparation and Controls*

Prior to implementation, site preparations and controls were established by AAIS. Polyethylene sheeting was placed on the ground around the excavation area to prevent tracking of materials. Access to the work area was limited by existing site controls including locked doors and fencing. Warning signs and barrier tapes were located at all approaches to the PCB work area. Appropriate PPE including tyvec suits, disposable rubber boots, and nitrile gloves were worn during remediation activities.

A temporary waste storage area was established in the parking area immediately west of the West Courtyard. Waste containers were staged in this area and labeled in accordance with 40 CFR 761.65. All containers were kept closed once they were full. Additional information regarding waste disposal is presented at the end of this letter.

*Removal of Impacted Materials*

Impacted materials were loaded directly into the bucket of a skid steer using a mini-excavator. The skid steer then live-loaded the materials to the PCB waste containers located in the temporary storage area in the parking lot. The skid steer bucket was under-loaded to prevent any spillage of materials during transport and the entire transport route was along hardscape surfaces. Following completion of excavation, the transport route was inspected for soils and found to be free of any soil from the skid steer.



Based on the verification sampling, as described below, the final extent of the excavation was to a distance of six feet from the building along the eastern 40 feet of excavation area and three feet from the building along the western 20 feet of excavation. The entire area was excavated to a depth of two feet below grade.

#### Verification Sampling

Prior to excavation, verification samples were collected at a distance of three feet from the building to establish the lateral extent of the excavation. Samples were collected every 20 feet along the planned excavation area from a depth of 0 to 3 inches below ground surface (bgs). Analytical results indicated PCBs present at concentrations of 0.36, 0.83, 1.29, and 8.6 ppm.

Due to the reported 8.6 ppm concentration in one sample, the project team decided to extend the eastern portion of the excavation laterally to a distance of six feet from the building (i.e., to the edge of the asphalt walkway) to increase the likelihood that all PCB soils with  $> 15$  ppm would be removed during this interim measure.

Following the excavation of soils to a depth of 2 ft bgs, verification samples were collected from the remaining soils. Two sidewall samples were collected at a point one foot below the top of the excavation at the east and west ends. A 10 foot sampling grid was placed over the excavation and one sample collected from the base of the excavation in each grid in the middle of the excavation area (between the building and the edge of the excavation).

Analytical results were as follows:

- Sidewall Samples – Analytical results indicated that PCBs were either non-detect ( $< 0.12$  ppm) in the sample collected at the east end of the excavation and present at a concentration below the high occupancy clean up criteria and the CTDEEP RSRs DEC of  $\leq 1$  ppm (0.38 ppm) in the western sidewall sample.
- Base of Excavation Samples – Analytical results indicated that PCBs were non-detect in 4 of the 6 samples (reporting limits of  $< 0.11$  and  $< 0.13$  ppm) and present at concentrations of 1.47 ppm and 3.67 ppm in the remaining 2 samples.

The extent of the excavation and the locations of the samples are depicted on Figure 1. A summary of verification sampling results is presented on Table 1 and the complete analytical laboratory reports are included in Attachment 1.

Following excavation and verification sampling, polysheeting was placed at the bottom of the excavation to demarcate the extent of the excavation and the area was backfilled and restored to the surrounding grade.



#### **Waste Storage and Disposal**

Waste generated during the project were managed for disposal as PCB waste. Materials were transported directly to secured, lined, and covered roll off containers for temporary storage on-site. Following generation, the management and off-site disposal of waste materials was coordinated by AAIS. A total of 21.0 tons of bulk PCB Remediation Waste (soil, polysheeting, used PPE, etc.) were shipped off-site in 3 roll-off containers for disposal at US Ecology's Wayne disposal landfill in Belleville, Michigan. Copies of the waste disposal documents are included as Attachment 2.



## Conclusions and Next Steps

Based on the results of the verification sampling, PCB impacts above the CTDEEP SEH reporting threshold of 15 ppm were removed as part of the excavation. In accordance with Section 22a-6u of the Connecticut General Statutes, the excavation was completed within 90 days of becoming aware of the exceedance, and as such, the reporting requirements under that Statute are not applicable at this time.

Additional excavation of PCB impacted soils to address areas with PCBs remaining at concentrations > 1 ppm will be conducted as part of the site wide ground surfaces excavation to address PCB impacts in locations around the school.

If you have any questions or require further information, please email me at [gfranklin@woodardcurran.com](mailto:gfranklin@woodardcurran.com) or call me at (978) 482-7867.

Sincerely,

WOODARD & CURRAN INC.

A handwritten signature in black ink that reads "George J. Franklin".

George J. Franklin, CHMM  
Technical Manager

A handwritten signature in black ink that reads "Jeffrey A. Hamel".

Jeffrey A. Hamel, LSP, LEP  
Senior Principal

Enclosures:      Table 1 – Summary of Verification Sampling Results  
Figure 1 – West Courtyard Excavation Area  
Attachment 1 – Analytical Laboratory Reports  
Attachment 2 – Waste Documentation



**TABLE 1: SUMMARY OF VERIFICATION  
SAMPLING RESULTS**

Table 1

Summary of Verification Sampling Results  
Ludlowe High School

Remediation Area	Sample Information			
	Materials	Sample ID	Sample Date	Total PCBs (ppm)
	Pre-Excavation Lateral Delineation Sample (Collected from 0-3" bgs)	RS-CS-01	12/10/2015	1.29
		RS-CS-02	12/10/2015	0.36
		RS-CS-03	12/10/2015	8.6
		RS-CS-04	12/10/2015	0.83
	Sidewall Confirmation Soil Sample (Collected from 0-3" bgs)	RS-CS-05	12/29/2016	<0.12
		RS-CS-12	12/29/2016	0.38
West Courtyard		RS-CS-06	12/29/2016	<0.13
		RS-CS-07	12/29/2016	1.47
	Base Confirmation Soil Sample (Collected from 24-27" bgs)	RS-CS-08	12/29/2016	3.67
		RS-CS-09	12/29/2016	<0.11
		RS-CS-10	12/29/2016	<0.11
		RS-CS-11	12/29/2016	<0.11

## Notes:

Soil samples collected and submitted for extraction via USEPA method 3540C (Sohxlet extraction) and analyzed for PCBs via USEPA method 8082.

Total PCBs reported as Aroclor 1254 and/or Aroclor 1260. No other Aroclor reported above the minimum laboratory reporting limit.

Bold and Shaded results indicate total PCBs reported at concentrations above the high occupancy use criteria of  $\leq 1$  ppm.



**FIGURE 1: WEST COURTYARD EXCAVATION AREA**





## **ATTACHMENT 1: ANALYTICAL LABORATORY REPORTS**

**NOTE: - See Accompanying CD For This Attachment**



---

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

December 18, 2015

Greg Reynolds  
Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410

Project Location: Fairfield- Ludlowe  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 15L0602

Enclosed are results of analyses for samples received by the laboratory on December 11, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "Lisa A. Worthington".

Lisa A. Worthington  
Project Manager

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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: Greg Reynolds

REPORT DATE: 12/18/2015

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### ANALYTICAL SUMMARY

---

WORK ORDER NUMBER: 15L0602

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

PROJECT LOCATION: Fairfield- Ludlowe

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-CS-01	15L0602-01	Soil		SM 2540G SW-846 8082A	
LS-CS-02	15L0602-02	Soil		SM 2540G SW-846 8082A	
LS-CS-03	15L0602-03	Soil		SM 2540G SW-846 8082A	
LS-CS-04	15L0602-04	Soil		SM 2540G SW-846 8082A	



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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

##### **Qualifications:**

###### **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 & Sample(s) Qualified:**

###### **Decachlorobiphenyl**

15L0602-03[LS-CS-03]

###### **Decachlorobiphenyl [2C]**

15L0602-03[LS-CS-03]

###### **Tetrachloro-m-xylene**

15L0602-03[LS-CS-03]

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

15L0602-03[LS-CS-03]

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 "Johanna K. Harrington".

Johanna K. Harrington

Manager, Laboratory Reporting



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

Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-01

Sampled: 12/10/2015 15:15

**Sample ID:** 15L0602-01

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	12/12/15	12/15/15 14:23	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1254 [2]	0.89	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1260 [2]	0.40	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 14:23	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.7	30-150					12/15/15 14:23		
Decachlorobiphenyl [2]	103	30-150					12/15/15 14:23		
Tetrachloro-m-xylene [1]	89.6	30-150					12/15/15 14:23		
Tetrachloro-m-xylene [2]	93.3	30-150					12/15/15 14:23		




---

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Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-01

Sampled: 12/10/2015 15:15

**Sample ID:** 15L0602-01Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	12/12/15	12/14/15 8:42	MRL



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Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-02

Sampled: 12/10/2015 15:20

**Sample ID:** 15L0602-02Sample Matrix: Soil**Polychlorinated 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	12/12/15	12/15/15 14:36	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	93.6	30-150					12/15/15 14:36		
Decachlorobiphenyl [2]	93.7	30-150					12/15/15 14:36		
Tetrachloro-m-xylene [1]	96.9	30-150					12/15/15 14:36		
Tetrachloro-m-xylene [2]	101	30-150					12/15/15 14:36		




---

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Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

Sampled: 12/10/2015 15:20

**Field Sample #:** LS-CS-02**Sample ID:** 15L0602-02Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.0		% Wt	1		SM 2540G	12/12/15	12/14/15 8:42	MRL



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Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-03

Sampled: 12/10/2015 15:25

**Sample ID:** 15L0602-03Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1221 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1232 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1242 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1248 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1254 [2]	8.6	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1260 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1262 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Aroclor-1268 [1]	ND	1.5	mg/Kg dry	50		SW-846 8082A	12/12/15	12/17/15 11:57	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	*		30-150		S-01				12/17/15 11:57
Decachlorobiphenyl [2]	*		30-150		S-01				12/17/15 11:57
Tetrachloro-m-xylene [1]	*		30-150		S-01				12/17/15 11:57
Tetrachloro-m-xylene [2]	*		30-150		S-01				12/17/15 11:57




---

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

Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-03

Sampled: 12/10/2015 15:25

**Sample ID:** 15L0602-03Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.2		% Wt	1		SM 2540G	12/12/15	12/14/15 8:42	MRL



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

Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

**Field Sample #:** LS-CS-04

Sampled: 12/10/2015 15:30

**Sample ID:** 15L0602-04**Sample Matrix:** Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1254 [2]	0.44	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1260 [1]	0.39	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	12/12/15	12/15/15 15:02	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	96.0	30-150					12/15/15 15:02		
Decachlorobiphenyl [2]	101	30-150					12/15/15 15:02		
Tetrachloro-m-xylene [1]	97.1	30-150					12/15/15 15:02		
Tetrachloro-m-xylene [2]	99.9	30-150					12/15/15 15:02		




---

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Project Location: Fairfield- Ludlowe

Sample Description:

Work Order: 15L0602

Date Received: 12/11/2015

Sampled: 12/10/2015 15:30

**Field Sample #:** LS-CS-04**Sample ID:** 15L0602-04Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.9		% Wt	1		SM 2540G	12/12/15	12/14/15 8:42	MRL



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
15L0602-01 [LS-CS-01]	B137521	12/12/15
15L0602-02 [LS-CS-02]	B137521	12/12/15
15L0602-03 [LS-CS-03]	B137521	12/12/15
15L0602-04 [LS-CS-04]	B137521	12/12/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15L0602-01 [LS-CS-01]	B137515	10.3	10.0	12/12/15
15L0602-02 [LS-CS-02]	B137515	10.2	10.0	12/12/15
15L0602-03 [LS-CS-03]	B137515	10.2	10.0	12/12/15
15L0602-04 [LS-CS-04]	B137515	10.2	10.0	12/12/15



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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	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	---------	-----------	-------

**Batch B137515 - SW-846 3540C**

<b>Blank (B137515-BLK1)</b>										Prepared: 12/12/15 Analyzed: 12/15/15
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	0.209		mg/Kg wet	0.200		104		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.203		mg/Kg wet	0.200		101		30-150		
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.0		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		97.8		30-150		

<b>LCS (B137515-BS1)</b>										Prepared: 12/12/15 Analyzed: 12/15/15
Aroclor-1016	0.20	0.020	mg/Kg wet	0.200		99.0		40-140		
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		97.8		40-140		
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.9		40-140		
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		96.8		40-140		
Surrogate: Decachlorobiphenyl	0.206		mg/Kg wet	0.200		103		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.201		mg/Kg wet	0.200		100		30-150		
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.1		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.196		mg/Kg wet	0.200		97.9		30-150		

<b>LCS Dup (B137515-BSD1)</b>										Prepared: 12/12/15 Analyzed: 12/15/15
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		97.5		40-140	1.55	30
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		96.4		40-140	1.44	30
Aroclor-1260	0.20	0.020	mg/Kg wet	0.200		98.9		40-140	0.0303	30
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		96.1		40-140	0.712	30
Surrogate: Decachlorobiphenyl	0.201		mg/Kg wet	0.200		101		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.195		mg/Kg wet	0.200		97.7		30-150		
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.4		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.194		mg/Kg wet	0.200		97.0		30-150		



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#### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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##### Batch B137521 - % Solids

Duplicate (B137521-DUP4)	<b>Source: 15L0602-01</b>			Prepared: 12/12/15 Analyzed: 12/14/15				
% Solids	86.2		% Wt		85.8		0.465	20



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LS-CS-01

Lab Sample ID: 15L0602-01 Date(s) Analyzed: 12/15/2015 12/15/2015

Date(s) Analyzed: 12/15/2015 12/15/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.81	
	2	0.00	-0.03	0.03	0.89	9.2
Aroclor-1260	1	0.00	-0.03	0.03	0.34	
	2	0.00	-0.03	0.03	0.40	15.6



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-CS-02

*SW-846 8082A*

Lab Sample ID: 15L0602-02 Date(s) Analyzed: 12/15/2015 12/15/2015

Date(s) Analyzed: 12/15/2015 12/15/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.34	
	2	0.00	-0.03	0.03	0.36	6.6



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-CS-03

*SW-846 8082A*

Lab Sample ID: 15L0602-03 Date(s) Analyzed: 12/17/2015 12/17/2015

Date(s) Analyzed: 12/17/2015 12/17/2015

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

## Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	8.1	
	2	0.00	-0.03	0.03	8.6	6.2



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-CS-04

*SW-846 8082A*

Lab Sample ID: 15L0602-04 Date(s) Analyzed: 12/15/2015 12/15/2015

Date(s) Analyzed: 12/15/2015 12/15/2015

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.42	
	2	0.00	-0.03	0.03	0.44	3.9
Aroclor-1260	1	0.00	-0.03	0.03	0.39	
	2	0.00	-0.03	0.03	0.39	0.3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B137515-BS1 Date(s) Analyzed: 12/15/2015 12/15/2015

Date(s) Analyzed: 12/15/2015 12/15/2015

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.20	1
Aroclor-1260	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.19	4



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B137515-BSD1 Date(s) Analyzed: 12/15/2015 12/15/2015

Date(s) Analyzed: 12/15/2015 12/15/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.19	3
Aroclor-1260	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.19	4



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**FLAG/QUALIFIER SUMMARY**

\* QC result is outside of established limits.

† Wide recovery limits established for difficult compound.

‡ Wide RPD limits established for difficult compound.

# Data exceeded client recommended or regulatory level

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

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

S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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
Aroclor-1262 [2C]	NY,NC
Aroclor-1268	NY,NC
Aroclor-1268 [2C]	NY,NC

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2015
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

**CHAIN OF CUSTODY RECORD**

© Phone: 413-525-2332

Fax: 413-525-6405

Email: info@contestlabs.com

ANALYTICAL LABORATORY

www.contestlabs.com

Company Name: Wondarol &amp; Curran

Address: 1520 Highland Ave  
Cheshire CT 06410

Telephone: 203-699-6116

Project # 228875

Client PO#

DATA DELIVERY (check all that apply)

 FAX EMAIL WEBSITE

\*\*\*Container Code:

Amber glass

Glass

Plastic

ST=sterile

V=vial

S=syringe can

T=tedlar bag

O=Other

\*\*\*Cont. Code:

Amber glass

Glass

Plastic

ST=sterile

V=vial

S=syringe can

T=tedlar bag

O=Other

\*\*Preservation:

I=iced

H=HCl

M=Methanol

N=Nitric Acid

S=Sulfuric Acid

B=Sodium bisulfate

X=Na hydroxide

T=Na thiosulfate

O=Other

\*Matrix Code:

GW=groundwater

WW=wastewater

DW=dinking water

A=air

S=soil/solid

SL=sludge

O=other

**Is your project MCP or RCP?**

Collection

Enhanced Data Package

OTHER

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EXCEL

GIS

Enhanced Data Package

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Composite

Grab

End Caps

Date/Time

Beginning Date/Time

Ending Date/Time

Collection

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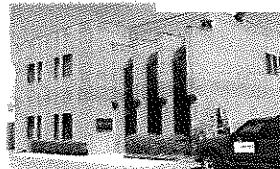
Enhanced Data Package

Matrix Code

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



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Worland & Curran RECEIVED BY: R.F. DATE: 12/11/15

1) Was the chain(s) of custody relinquished and signed?  Yes  No  No CoC Included

2) Does the chain agree with the samples?  Yes  No

If not, explain:

3) Are all the samples in good condition?  Yes  No

If not, explain:

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?  Yes  No  N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 5

5) Are there Dissolved samples for the lab to filter?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any RUSH or SHORT HOLDING TIME samples?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

7) Location where samples are stored:

Permission to subcontract samples? Yes  No

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes  No  N/A \_\_\_\_\_

9) Do all samples have the proper Base pH: Yes  No  N/A \_\_\_\_\_

10) Was the PC notified of any discrepancies with the CoC vs the samples: Yes  No  N/A \_\_\_\_\_

## Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		_____	8 oz amber/clear jar
500 mL Amber			4 oz amber/clear jar
250 mL Amber (8oz amber)			2 oz amber/clear jar
1 Liter Plastic			Plastic Bag / Ziploc
500 mL Plastic			SOC Kit
250 mL plastic			Non-ConTest Container
40 mL Vial - type listed below			Perchlorate Kit
Colisure / bacteria bottle			Flashpoint bottle
Dissolved Oxygen bottle			Other glass jar
Encore			Other

Laboratory Comments:

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:   
Doc# 277 # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013 # Thiosulfate _____	Unpreserved	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

RLF 12/11/15 1545



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

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

**Client:** Woodard & Curran - CT

**Project Location:** Fairfield- Ludlowe

**Project Number:** 15L0602

**Laboratory Sample ID(s):**

15L0602-01 thru 15L0602-04

**Sample Date(s):**

12/10/2015

**List RCP Methods Used:**

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 <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 <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 checked="" type="checkbox"/> Yes <input 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:  
Johanna Harrington  
Reporting

Position: Manager, Laboratory

Printed Name: Johanna K. Harrington

Date: 12/18/15

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



---

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

January 4, 2016

Greg Reynolds  
Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410

Project Location: Fairfield, CT  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 15L1398

Enclosed are results of analyses for samples received by the laboratory on December 30, 2015. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Lisa A. Worthington". The signature is fluid and cursive, with "Lisa" on the first line and "A. Worthington" on the second line.

Lisa A. Worthington  
Project Manager

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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: Greg Reynolds

REPORT DATE: 1/4/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 15L1398

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-CS-05	15L1398-01	Soil		SM 2540G SW-846 8082A	
LS-CS-06	15L1398-02	Soil		SM 2540G SW-846 8082A	
LS-CS-07	15L1398-03	Soil		SM 2540G SW-846 8082A	
LS-CS-08	15L1398-04	Soil		SM 2540G SW-846 8082A	
LS-CS-09	15L1398-05	Soil		SM 2540G SW-846 8082A	
LS-CS-10	15L1398-06	Soil		SM 2540G SW-846 8082A	
LS-CS-11	15L1398-07	Soil		SM 2540G SW-846 8082A	
LS-CS-12	15L1398-08	Soil		SM 2540G SW-846 8082A	
LS-CS-DUP	15L1398-09	Soil		SM 2540G SW-846 8082A	



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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

##### **Qualifications:**

###### **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**

15L1398-09[LS-CS-DUP]

###### **Decachlorobiphenyl [2C]**

15L1398-09[LS-CS-DUP]

###### **Tetrachloro-m-xylene**

15L1398-09[LS-CS-DUP]

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

15L1398-09[LS-CS-DUP]

###### **S-02**

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

###### **Decachlorobiphenyl [2C]**

B138857-MS1

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

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

A photograph of a handwritten signature in black ink. The signature appears to read "Johanna K. Harrington".

Johanna K. Harrington

Manager, Laboratory Reporting



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-05

Sampled: 12/29/2015 13:45

**Sample ID:** 15L1398-01

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	12/30/15	12/31/15 16:11	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:11	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	81.9	30-150						12/31/15 16:11	
Decachlorobiphenyl [2]	93.8	30-150						12/31/15 16:11	
Tetrachloro-m-xylene [1]	85.6	30-150						12/31/15 16:11	
Tetrachloro-m-xylene [2]	84.8	30-150						12/31/15 16:11	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-05

Sampled: 12/29/2015 13:45

**Sample ID:** 15L1398-01Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.8		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-06

Sampled: 12/29/2015 13:50

**Sample ID:** 15L1398-02**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	12/30/15	12/31/15 16:28	JMB
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	88.1	30-150					12/31/15 16:28		
Decachlorobiphenyl [2]	98.6	30-150					12/31/15 16:28		
Tetrachloro-m-xylene [1]	89.1	30-150					12/31/15 16:28		
Tetrachloro-m-xylene [2]	90.0	30-150					12/31/15 16:28		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

Sampled: 12/29/2015 13:50

**Field Sample #:** LS-CS-06**Sample ID:** 15L1398-02Sample Matrix: Soil**Conventional Chemistry Parameters by EPA/APHA/SW-846 Methods (Total)**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	79.1		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-07

Sampled: 12/29/2015 13:55

**Sample ID:** 15L1398-03**Sample Matrix:** Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1254 [1]	0.37	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1260 [2]	1.1	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 16:46	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	88.9		30-150						12/31/15 16:46
Decachlorobiphenyl [2]	103		30-150						12/31/15 16:46
Tetrachloro-m-xylene [1]	91.4		30-150						12/31/15 16:46
Tetrachloro-m-xylene [2]	89.3		30-150						12/31/15 16:46




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-07

Sampled: 12/29/2015 13:55

**Sample ID:** 15L1398-03Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.7		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-08

Sampled: 12/29/2015 14:00

**Sample ID:** 15L1398-04Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1254 [2]	0.19	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:04	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	78.0		30-150						12/31/15 17:04
Decachlorobiphenyl [2]	123		30-150						12/31/15 17:04
Tetrachloro-m-xylene [1]	72.7		30-150						12/31/15 17:04
Tetrachloro-m-xylene [2]	73.1		30-150						12/31/15 17:04




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-08

Sampled: 12/29/2015 14:00

**Sample ID:** 15L1398-04Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.8		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-09

Sampled: 12/29/2015 14:05

**Sample ID:** 15L1398-05**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	12/30/15	12/31/15 17:21	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:21	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	77.7	30-150							12/31/15 17:21
Decachlorobiphenyl [2]	87.8	30-150							12/31/15 17:21
Tetrachloro-m-xylene [1]	77.3	30-150							12/31/15 17:21
Tetrachloro-m-xylene [2]	76.2	30-150							12/31/15 17:21




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-09

Sampled: 12/29/2015 14:05

**Sample ID:** 15L1398-05Sample Matrix: Soil

---

**Conventional 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	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-10

Sampled: 12/29/2015 14:10

**Sample ID:** 15L1398-06**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	12/30/15	12/31/15 17:39	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:39	JMB
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	85.8	30-150					12/31/15 17:39		
Decachlorobiphenyl [2]	92.1	30-150					12/31/15 17:39		
Tetrachloro-m-xylene [1]	88.8	30-150					12/31/15 17:39		
Tetrachloro-m-xylene [2]	91.7	30-150					12/31/15 17:39		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-10

Sampled: 12/29/2015 14:10

**Sample ID:** 15L1398-06Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.8		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-11

Sampled: 12/29/2015 14:15

**Sample ID:** 15L1398-07**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	12/30/15	12/31/15 17:56	JMB
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	12/30/15	12/31/15 17:56	JMB
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.5	30-150							12/31/15 17:56
Decachlorobiphenyl [2]	99.3	30-150							12/31/15 17:56
Tetrachloro-m-xylene [1]	91.8	30-150							12/31/15 17:56
Tetrachloro-m-xylene [2]	89.7	30-150							12/31/15 17:56




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-11

Sampled: 12/29/2015 14:15

**Sample ID:** 15L1398-07Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	93.0		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-12

Sampled: 12/29/2015 14:20

**Sample ID:** 15L1398-08**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	12/30/15	1/2/16 11:23	JMB
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1254 [2]	0.21	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1260 [2]	0.17	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	12/30/15	1/2/16 11:23	JMB
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	97.5	30-150					1/2/16 11:23		
Decachlorobiphenyl [2]	137	30-150					1/2/16 11:23		
Tetrachloro-m-xylene [1]	76.4	30-150					1/2/16 11:23		
Tetrachloro-m-xylene [2]	86.8	30-150					1/2/16 11:23		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-12

Sampled: 12/29/2015 14:20

**Sample ID:** 15L1398-08Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.5		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-DUP

Sampled: 12/29/2015 14:00

**Sample ID:** 15L1398-09**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	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1221 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1232 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1242 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1248 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1254 [2]	3.0	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1260 [2]	0.67	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1262 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Aroclor-1268 [1]	ND	0.58	mg/Kg dry	25		SW-846 8082A	12/30/15	1/2/16 11:36	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	*		30-150		S-01				1/2/16 11:36
Decachlorobiphenyl [2]	*		30-150		S-01				1/2/16 11:36
Tetrachloro-m-xylene [1]	*		30-150		S-01				1/2/16 11:36
Tetrachloro-m-xylene [2]	*		30-150		S-01				1/2/16 11:36




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Project Location: Fairfield, CT

Sample Description:

Work Order: 15L1398

Date Received: 12/30/2015

**Field Sample #:** LS-CS-DUP

Sampled: 12/29/2015 14:00

**Sample ID:** 15L1398-09Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.3		% Wt	1		SM 2540G	12/31/15	1/2/16 10:19	MJR



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
15L1398-01 [LS-CS-05]	B138910	12/31/15
15L1398-02 [LS-CS-06]	B138910	12/31/15
15L1398-03 [LS-CS-07]	B138910	12/31/15
15L1398-04 [LS-CS-08]	B138910	12/31/15
15L1398-05 [LS-CS-09]	B138910	12/31/15
15L1398-06 [LS-CS-10]	B138910	12/31/15
15L1398-07 [LS-CS-11]	B138910	12/31/15
15L1398-08 [LS-CS-12]	B138910	12/31/15
15L1398-09 [LS-CS-DUP]	B138910	12/31/15

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
15L1398-01 [LS-CS-05]	B138857	10.2	10.0	12/30/15
15L1398-02 [LS-CS-06]	B138857	10.1	10.0	12/30/15
15L1398-03 [LS-CS-07]	B138857	10.3	10.0	12/30/15
15L1398-04 [LS-CS-08]	B138857	10.2	10.0	12/30/15
15L1398-05 [LS-CS-09]	B138857	10.4	10.0	12/30/15
15L1398-06 [LS-CS-10]	B138857	10.4	10.0	12/30/15
15L1398-07 [LS-CS-11]	B138857	10.1	10.0	12/30/15
15L1398-08 [LS-CS-12]	B138857	10.0	10.0	12/30/15
15L1398-09 [LS-CS-DUP]	B138857	10.1	10.0	12/30/15



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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	RPD Limit	Notes
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**Batch B138857 - SW-846 3540C**

<b>Blank (B138857-BLK1)</b>					Prepared: 12/30/15 Analyzed: 12/31/15					
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.7		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.189		mg/Kg wet	0.200		94.6		30-150		
Surrogate: Tetrachloro-m-xylene	0.164		mg/Kg wet	0.200		82.1		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		88.9		30-150		

<b>LCS (B138857-BS1)</b>					Prepared: 12/30/15 Analyzed: 12/31/15					
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		87.3		40-140		
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.3		40-140		
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		79.9		40-140		
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		90.2		40-140		
Surrogate: Decachlorobiphenyl	0.171		mg/Kg wet	0.200		85.7		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.182		mg/Kg wet	0.200		90.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.175		mg/Kg wet	0.200		87.3		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.188		mg/Kg wet	0.200		94.1		30-150		

<b>LCS Dup (B138857-BSD1)</b>					Prepared: 12/30/15 Analyzed: 12/31/15					
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		88.3		40-140	1.19	30
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		89.3		40-140	0.0717	30
Aroclor-1260	0.16	0.020	mg/Kg wet	0.200		81.5		40-140	1.99	30
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.6		40-140	1.54	30
Surrogate: Decachlorobiphenyl	0.177		mg/Kg wet	0.200		88.7		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		96.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.178		mg/Kg wet	0.200		89.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.198		mg/Kg wet	0.200		99.1		30-150		



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### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B138857 - SW-846 3540C

<b>Matrix Spike (B138857-MS1)</b>		<b>Source: 15L1398-01</b>		Prepared: 12/30/15 Analyzed: 12/31/15					
Aroclor-1016	0.19	0.12	mg/Kg dry	0.230	ND	84.4	40-140		
Aroclor-1016 [2C]	0.17	0.12	mg/Kg dry	0.230	ND	73.3	40-140		
Aroclor-1260	0.17	0.12	mg/Kg dry	0.230	ND	72.3	40-140		
Aroclor-1260 [2C]	0.20	0.12	mg/Kg dry	0.230	ND	85.4	40-140		
Surrogate: Decachlorobiphenyl	0.175		mg/Kg dry	0.230		76.1	30-150		
<b>Surrogate: Decachlorobiphenyl [2C]</b>	<b>0.389</b>		mg/Kg dry	0.230		<b>169</b>	* 30-150		S-02
Surrogate: Tetrachloro-m-xylene	0.159		mg/Kg dry	0.230		69.3	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.165		mg/Kg dry	0.230		71.6	30-150		
<b>Matrix Spike Dup (B138857-MSD1)</b>		<b>Source: 15L1398-01</b>		Prepared: 12/30/15 Analyzed: 12/31/15					
Aroclor-1016	0.23	0.12	mg/Kg dry	0.230	ND	101	40-140	17.9	50
Aroclor-1016 [2C]	0.19	0.12	mg/Kg dry	0.230	ND	81.9	40-140	11.0	50
Aroclor-1260	0.19	0.12	mg/Kg dry	0.230	ND	80.7	40-140	11.0	50
Aroclor-1260 [2C]	0.23	0.12	mg/Kg dry	0.230	ND	98.1	40-140	13.9	50
Surrogate: Decachlorobiphenyl	0.191		mg/Kg dry	0.230		82.8	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.292		mg/Kg dry	0.230		127	30-150		
Surrogate: Tetrachloro-m-xylene	0.170		mg/Kg dry	0.230		74.0	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg dry	0.230		75.0	30-150		



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#### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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##### Batch B138910 - % Solids

Duplicate (B138910-DUP2)	<b>Source: 15L1398-01</b>			Prepared: 12/31/15 Analyzed: 01/02/16				
% Solids	83.7		% Wt		84.8		1.31	20



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LS-CS-07

Lab Sample ID: 15L1398-03 Date(s) Analyzed: 12/31/2015 12/31/2015

Date(s) Analyzed: 12/31/2015 12/31/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.37	
	2	0.00	-0.03	0.03	0.36	3.3
Aroclor-1260	1	0.00	-0.03	0.03	0.92	
	2	0.00	-0.03	0.03	1.1	17.3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-CS-08

*SW-846 8082A*

Lab Sample ID: 15L1398-04

Date(s) Analyzed: 12/31/2015 12/31/2015

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.19	17.1



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

LS-CS-12

Lab Sample ID: 15L1398-08 Date(s) Analyzed: 01/02/2016 01/02/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.21	16.5
Aroclor-1260	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.17	27.4



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

SW-846 8082A

LS-CS-DUP

Lab Sample ID: 15L1398-09

Date(s) Analyzed: 01/02/2016 01/02/2016

### Instrument ID (1):

## Instrument ID (2):

## GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	2.7	
	2	0.00	-0.03	0.03	3.0	9.8



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

*SW-846 8082A*

Lab Sample ID: B138857-BS1 Date(s) Analyzed: 12/31/2015 12/31/2015

Date(s) Analyzed: 12/31/2015 12/31/2015

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	3
Aroclor-1260	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.18	12



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B138857-BSD1 Date(s) Analyzed: 12/31/2015 12/31/2015

Date(s) Analyzed: 12/31/2015 12/31/2015

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.18	2
Aroclor-1260	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.18	10



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

## Matrix Spike

Lab Sample ID: B138857-MS1 Date(s) Analyzed: 12/31/2015 12/31/2015

Date(s) Analyzed: 12/31/2015 12/31/2015

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.17	13
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.20	19



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

## Matrix Spike Dup

Lab Sample ID: B138857-MSD1 Date(s) Analyzed: 12/31/2015 12/31/2015

Date(s) Analyzed: 12/31/2015 12/31/2015

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

## Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.23	
	2	0.00	-0.03	0.03	0.19	20
Aroclor-1260	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.23	21



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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

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.

S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.



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

#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2016
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2016
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2016
RI	Rhode Island Department of Health	LAO00112	12/30/2015
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
WA	State of Washington Department of Ecology	C2065	02/23/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016

**CHAIN OF CUSTODY RECORD**39 Spruce Street  
East Longmeadow, MA 01028© Phone: 413-525-2332  
Fax: 413-525-6405Email: info@contestdlabs.com  
www.contestdlabs.com

ANALYTICAL LABORATORY

Company Name: Woodland & GarrisonAddress: 1520 Highland AveAttention: Jeff HamelSampled By: Greg ReynoldsProject Location: Fairfield, CT

Project Proposal Provided? (for billing purposes)

yes \_\_\_\_\_  
 proposal date \_\_\_\_\_

Project # 228875

Client PO#

DATA DELIVERY (check all that apply)

 FAX EMAIL WEBSITEFax # 415-362-0000Email: g.reynolds@woodlandgarrison.comFormat:  PDF  EXCEL  GIS  
 OTHERCollection:  Enhanced Data Package"  "Enhanced Data Package"Beginning Date/Time 12/21/15Ending Date/Time 1355

Composite Grab

Matrix Code

Conc/Code

X

X

X

X

X

X

X

X

X

X

X

X

X

X

X

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix Code	Conc/Code
01	LS-CS-05	12/21/15	1345	X	X	SO	4
02	LS-CS-06	1350		X	X		
03	LS-CS-07	1355		X	X		
04	LS-CS-08	1400		X	X		
05	LS-CS-09	1405		X	X		
06	LS-CS-10	1410		X	X		
07	LS-CS-11	1415		X	X		
08	LS-CS-12	1420		X	X		
09	LS-CS-Dip	1400		X	X		

Comments:

 $RL \leq 1 \text{ ppm}$ 

Dissolved Metals	# of Containers
<input type="radio"/> Field Filtered	**
<input type="radio"/> Lab to Filter	Preservation

***Container Code:	***Container Code
A=Amber glass	
G=glass	
P=plastic	
ST=sterile	
V=vial	
S=summa can	
T=tedlar bag	
O=Other	

**WBE/DBE Certifier**

**Is your project MCP or RCP?**

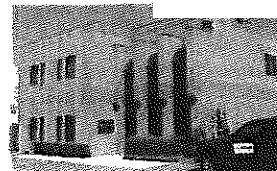
- MCP Form Required  
 RCP Form Required  
 MA State DW Form Required

TURNAROUND TIME STARTS AT 9:00 A.M. THE DAY AFTER SAMPLE RECEIPT UNLESS THERE ARE QUESTIONS ON YOUR CHAIN. IF THIS FORM IS NOT FILLED OUT COMPLETELY OR INCORRECT, TURNAROUND TIME WILL NOT START UNTIL ALL QUESTIONS ARE ANSWERED BY OUR CLIENT.  
 PLEASE BE CAREFUL NOT TO CONTAMINATE THIS DOCUMENT.

39 Spruce St.  
East Longmeadow, MA. 01028  
P: 413-525-2332  
F: 413-525-6405  
[www.contestlabs.com](http://www.contestlabs.com)



Page 1 of 2



## Sample Receipt Checklist

CLIENT NAME: Woodard & Curran RECEIVED BY: RLE DATE: 12/30/15

1) Was the chain(s) of custody relinquished and signed?  Yes  No  No CoC Included

2) Does the chain agree with the samples?  Yes  No

If not, explain:

3) Are all the samples in good condition?  Yes  No

If not, explain:

4) How were the samples received:

On Ice  Direct from Sampling  Ambient  In Cooler(s)

Were the samples received in Temperature Compliance of (2-6°C)?  Yes  No  N/A

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun 31

5) Are there Dissolved samples for the lab to filter?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

6) Are there any **RUSH** or **SHORT HOLDING TIME** samples?  Yes  No

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Permission to subcontract samples? Yes  No

7) Location where samples are stored: \_\_\_\_\_ (Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

8) Do all samples have the proper Acid pH: Yes  No  N/A \_\_\_\_\_

9) Do all samples have the proper Base pH: Yes  No  N/A \_\_\_\_\_

10) Was the PC notified of any discrepancies with the CoCs the samples: Yes  No  N/A \_\_\_\_\_

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		8 oz amber/clear jar	
500 mL Amber		4 oz <del>amber</del> /clear jar	<u>9</u>
250 mL Amber (8oz amber)		2 oz amber/clear jar	
1 Liter Plastic		Plastic Bag / Ziploc	
500 mL Plastic		SOC Kit	
250 mL plastic		Non-ConTest Container	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

Laboratory Comments:

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
Doc# 277 # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013 # Thiosulfate _____	Unpreserved _____	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	T	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	T	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials:

Date/Time:

RLF 12/30/15 1405



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

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

**Client:** Woodard & Curran - CT

**Project Location:** Fairfield, CT

**Project Number:** 15L1398

**Laboratory Sample ID(s):**

15L1398-01 thru 15L1398-09

**Sample Date(s):**

12/29/2015

**List RCP Methods Used:**

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 <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 <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 checked="" type="checkbox"/> Yes <input 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:  
Johanna Harrington  
Reporting

Position: Manager, Laboratory

Printed Name: Johanna K. Harrington

Date: 01/04/16

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



## **ATTACHMENT 2: WASTE DOCUMENTATION**

# CERTIFICATE OF DISPOSAL

**FOR MANIFESTED PCB WASTE**

This certificate is to verify the wastes identified as PCB scoria

and specified on Manifest # 0557300244, Line Item 1 has been landfilled on

Belleville, 2014 in accordance with all local, state and federal regulations by:

## *Wayne Disposal, Inc*

(EPA ID. # MID048090633)

49350 N 1-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-K-WALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature:



Please print or type. (Form designed for use on 8½ x 11-inch (12-pitch) typewriter)					Form Approved, OMB No. 2500-0039
UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number <i>40CFR PART 71a1</i>	2. Page 1 of 1	3. Emergency Response Phone 860-257-6300	4. Manifest Tracking Number <b>015573002 JJK</b>
Generator's Name and Mailing Address Town of Fairfield 785 Unquowa Road Fairfield CT Generator's Phone:					Generator's Site Address (if different than mailing address)
5. General's Name and Mailing Address Wayne Disposal, Inc. Site # 2 Landfill, 49350 N I-94 Service Drive Belleville MI 48111		U.S. EPA ID Number <b>C TR 0 0 0 5 0 5 9 5 8</b>			U.S. EPA ID Number
6. Transporter 1 Company Name RED Technologies, LLC.		U.S. EPA ID Number			<i>NYD097644801</i>
7. Transporter 2 Company Name <i>Tonawanda Tank Transport</i>		U.S. EPA ID Number			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site # 2 Landfill, 49350 N I-94 Service Drive Belleville MI 48111		U.S. EPA ID Number			<b>M I D 0 4 8 0 9 0 6 3 3</b>
Facility's Phone: 800-592-5489					
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) <i>X 1. RQ UN3432, Polychlorinated biphenyls, solid 9, PGII</i>		10. Containers No. 0 0 1	Type CM	11. Total Quantity <i>13636</i>	12. Unit Wt./Vol. K
12.					
13.					
14. Special Handling Instructions and Additional Information <i>Approve A160093WB1 -OTS</i>		1) (S) Job#08-176 weight is estimated out of service date <i>2/02/2016</i> Haz Soll ERG#171			
		<i>Con # 3086</i>			
15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/carded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 49 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.					
Generator/Offeror's Printed/Typed Name <i>Salvatore Mazzoni</i>		Signature		Month 12	Day 11 Year 16
16. International Shipment <input checked="" type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S.		Port of entry/exit: Date leaving U.S.			
Transporter signature (for exports only): <i>Vocu</i>					
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>Bruce Yocom</i>   Signature <i>(B)</i>   Month 12 Day 13 Year 16					
Transporter 2 Printed/Typed Name <i>Bruce Yocom</i>   Signature <i>(B)</i>   Month 12 Day 11 Year 16					
18. Discrepancy					
18a. Discrepancy Indication Space <i>Actual weight vs. quantity</i> <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection					
18b. Alternate Facility (or Generator) <i>1200ft E of Hwy Chris Windham will be at Pk 21/16</i> U.S. EPA ID Number					
Facility's Phone:					
18c. Signature of Alternate Facility (or Generator)					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)					
1. <i>PLB</i>		2.	3.	4.	
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a					
Printed/Typed Name <i>Charles DeWitt</i>		Signature <i>C D</i>		Month 12	Day 15 Year 16

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

14C008

Please print or type. (Form designed for use on 12-pitch typewriter.)

Form Approved, OMB No. 2050-0039

1. UNIFORM HAZARDOUS WASTE MANIFEST <b>40 CFR Part 760</b>		2. Page 1 of 1	3. Emergency Response Phone 880-257-6300	4. Manifest Tracking Number <b>015573003 JJK</b>
Generator's Name and Mailing Address TOWN of Fairfield 785 Unquowa Road Fairfield CT Generator's Phone:				
6. Transporter 1 Company Name <b>RED Technologies, LLC.</b> U.S. EPA ID Number <b>CTR000505958</b>				
7. Transporter 2 Company Name <b>Torawanda Tank Transport Service</b> U.S. EPA ID Number <b>NYD0971A801</b>				
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site # 2 Landfill, 49350 N I-94 Service Drive Belleville MI 48111 Facility's Phone: <b>800-592-5489</b>				
<b>MID048090633</b>				
9a. Item U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group if any)		10. Containers No. Type	11. Total Quantity	12. Unit Wt/Vol
<b>X</b> 1. RQ UN3432, Polychlorinated biphenyls, solid 9. PGII		0 0 1 CM	<i>2000</i>	K MA02 PCB1
2.				
3.				
4.				
14. Special Handling Instructions and Additional Information 1)(S) Job#08-176 weight is estimated out of service date <i>0/2/16</i> Haz Soll ERG#171 - A1b0093 WDI - OTS - <i>#3088</i>				
15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste characterization statement (defined in 40 CFR 262.27(a) (ii) I am a large quantity generator) or (b) (II) I am a small quantity generator) is true.				
Generator's/Officer's Printed/Typed Name <i>Salvatore Morabito - FTS Manager of Concrete</i> Signature <i>S. Morabito</i> Month Day Year <b>12/2/16</b>				
16. International Segment <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit _____ Date leaving U.S.: _____				
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>Jason M Kruck</i> Signature <i>JMK</i> Month Day Year <b>02/05/16</b> Transporter 2 Printed/Typed Name <i>Bruce Yocom</i> Signature <i>BY</i> Month Day Year <b>02/08/16</b>				
18. Discrepancy				
18a. Discrepancy Indication Space <input checked="" type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection <i>before final weight 816316 kgs per Chris Whalingue at Realreef 2/03/16</i>				
18b. Alternate Facility (or Generator) Facility's Phone:				
18c. Signature of Alternate Facility (or Generator)				
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)				
1. <b>PCB</b> 2. <b> </b> 3. <b> </b> 4. <b> </b>				
20. Designated Facility Owner or Operator, Certification of receipt of hazardous materials covered by the manifest as specified in Item 1a Designated Name <i>Jonna Cowgar</i> Signature <i>JC</i> Month Day Year <b>02/10/16</b>				
DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)				

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

# CERTIFICATE OF DISPOSAL

From REC-FM-000-SEL

The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

**FOR MANIFESTED PCB WASTE**

This certificate is to verify the wastes identified as \_\_\_\_\_  
and specified on Manifest # 01537303Kk, Line Item \_\_\_\_\_ has been landfilled on  
Feb 11, 2011 in accordance with all local, state and federal regulations by:

## *Wayne Disposal, Inc*

(EPA I.D. # MID048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111  
Telephone: 1-800-KWALITY (592-5489)  
Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.

Authorized Signature: *Robert Bestulius*

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

5PMS

***FOR MANIFESTED PCB WASTE***

This certificate is to verify the wastes identified as PCB Solvent  
 and specified on Manifest # 055730014468, Line Item / has been landfilled on  
Sept 11, 2010 in accordance with all local, state and federal regulations by:

# ***Wayne Disposal, Inc***

(EPA I.D. # M1D048090633)

49350 N. I-94 Service Drive, Belleville, Michigan 48111

Telephone: 1-800-KWALITY (592-5489)

Fax: 1-800-KWALFAX (592-5329)

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who are acting under my direct instructions made the verification that this information is true accurate and complete.



Authorized Signature:

US ECOLOGY 49350 N. I-94 SERVICE DRIVE BELLEVILLE, MICHIGAN 48111

From REC-FM-030-BEL The electronic version of this document is the controlled version. Each user is responsible for ensuring that any document being used is the current version.

5/17/15

# **CERTIFICATE OF DISPOSAL**

UNIFORM HAZARDOUS WASTE MANIFEST				Form Approved, OMB No. 2050-0039			
Please print or type. [Form designed for use on site (12-pitch) typewriter.]		1. Generator ID Number	2. Page 1 of 1	3. Emergency Response Phone 860-267-6300	4. Manifest Tracking Number <b>015573001 JJK</b>	Generator's Site Address (if different than mailing address)	
5. Generator's Name and Mailing Address Town of Fairfield 785 Unquowa Road Fairfield CT							
6. Generator's Phone:				U.S. EPA ID Number <b>CTR 000505958</b>			
7. Transporter 1 Company Name <i>Towanda Tank Transport Service</i>				U.S. EPA ID Number <b>NYD 097644801</b>			
8. Designated Facility Name and Site Address Wayne Disposal, Inc. Site # 2 Landfill, 49350 N-94 Service Drive Belleville MI 48111 Facility's Phone 800 592-5489				U.S. EPA ID Number <b>MID 048090633</b>			
9a. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group if any) <b>X 1. RQ UN3432, Polychlorinated biphenyls, solid 9. PGIII</b>				10. Containers	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
				No. 001	Type CM	16,300 K	MA02 PCB1
2.							
3.							
4.							
14. Special Handling Instructions and Additional Information 1)(S) Job#08-176 weight is estimated out of service date 2/2/2016 Haz Soil ERG#17 <i>Car# 3039 Approval A160093WDI-OTS</i>							
15. GENERATOR/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/packaged, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent. I certify that the waste minimization statement identified in 40 CFR 262.27(a) (1) (as a large quantity generator) or (b) (If I am a small quantity generator) is true.							
Generator/Offeror's Printed/Typed Name <i>SALVATORE MOLAGIUB - FPI Manager/cons.m.</i>				Signature <i>Salvatore Molagubo</i> Month Day Year <b>12 1 16</b>			
16. International Shipments <input type="checkbox"/> Import to U.S. <input type="checkbox"/> Export from U.S. Port of entry/exit: _____ Date leaving U.S.: _____							
Transporter signature (for exports only):							
17. Transporter Acknowledgment of Receipt of Materials Transporter 1 Printed/Typed Name <i>Carl Sherman</i>				Signature <i>Carl Sherman</i> Month Day Year <b>100103/16</b>			
Transporter 2 Printed/Typed Name <i>SEAN CLEAR</i>				Signature <i>Sean Clear</i> Month Day Year <b>121916</b>			
18. Discrepancy							
18a. Discrepancy Indication Space <input type="checkbox"/> Quantity <input type="checkbox"/> Type <input type="checkbox"/> Residue <input type="checkbox"/> Partial Rejection <input type="checkbox"/> Full Rejection							
18b. Alternate Facility (or Generator)				Manifest Reference Number: _____ U.S. EPA ID Number: _____			
Facility's Phone: _____				Month Day Year			
18c. Signature of Alternate Facility (or Generator)							
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)							
1. <i>PCB</i> 2. _____ 3. _____ 4. _____							
20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a Printed/Typed Name <i>Dan Shihue</i>				Signature <i>OK</i> Month Day Year <b>1740116</b>			
DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)							

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.



March 20, 2018

Mr. Sal Morabito  
Manager of Construction, Security & Safety  
Fairfield Public Schools  
501 Kings Highway East  
Fairfield, CT 06825

Re: 2018 PCB Remediation Update – Significant Environmental Hazard Excavation  
Fairfield Ludlowe High School  
Fairfield, Connecticut

Dear Mr. Morabito:

This Polychlorinated Biphenyl (PCB) Significant Environmental Hazard (SEH) Remediation Report has been prepared by Woodard & Curran to document the remediation of PCB impacted soils above the Connecticut Department of Energy and Environmental Protection Remediation Standard Regulations (CT DEEP RSRs) SEH value of 15 parts per million (ppm) within the West Courtyard at Ludlowe High School in Fairfield, Connecticut.

On December 2, 2017, soil samples were collected for PCB analysis in support of on-going characterization activities at the school. One sample collected immediately adjacent to the building in the West Courtyard contained PCBs at concentrations of 20.2 ppm, corresponding to more than 15 times the Residential Land Use Direct Exposure Concentration (DEC) of 1 ppm. Based on the reported concentration, three follow-up samples were collected on December 16, 2017 to verify the extent of PCBs > 15 ppm. Two of the samples were collected immediately adjacent to the building at distances of five feet to the east and west of the initial sample. The third sample was collected at a distance of two feet from the building. Analytical results indicated that PCBs were < 15 ppm in the three samples with total PCBs reported at concentrations of 3.2, 3.9, and 9.9 ppm.

A summary of the analytical results is presented in the table below.

Sample ID	Sample Date	Distance from Building (feet)	Total PCBs (ppm)
FLHS-VBS-215	12/2/17	0	20.2
FLHS-VBS-216	12/16/2017	0	9.9
FLHS-VBS-218	12/16/17	0	3.17
FLHS-VBS-217	12/16/17	2	3.9

Based on these results, the extent of PCBs > 15 ppm was determined to be a 10-foot long area to a distance of two feet from the building wall, or approximately 20 square feet. The location of this area and the associated samples are depicted on Attachment A.

#### **Remediation Activities**

Excavation activities were conducted by SMI Environmental (SMI) on March 3, 2018 while the school was not in session.



### Site Preparation and Controls

Prior to implementation, site preparations and controls were established by SMI. Polyethylene sheeting was placed on the ground around the excavation area to prevent tracking of materials. Access to the work area was limited by existing site controls including locked doors and fencing. Appropriate PPE including tyvec suits, disposable rubber boots, and nitrile gloves were worn during remediation activities.

Cubic yard boxes were staged on pallets adjacent to the excavation area for direct loading and labeled in accordance with 40 CFR 761.65. Additional information regarding waste disposal is presented at the end of this letter.

### Removal of Impacted Materials

Soils within the excavation area were removed using a mini-excavator to a depth of two feet below ground surface (ft bgs) and directly loaded into the cubic yard boxes. When full, the cubic yard boxes were sealed at the point of generation and transported at the end of the shift off-site for disposal (see waste disposal section for additional information).

During excavation, two rounds of dust monitoring were conducted around the excavation area using a real time particulate monitor. Results from the dust monitoring indicated that readings were consistent with background readings collected prior to excavation.

### Verification Sampling

Following excavation, one verification sample was collected from a three-inch depth interval at the base of the excavation (i.e., 24 to 27 inches bgs). The sample was placed on ice and transferred to the analytical laboratory under standard chain of custody procedures for extraction via USEPA method 35640C and PCB analysis via USEPA method 8082.

Analytical results indicated that PCBs were present at a concentration of 1.17 ppm. Based on these results, the excavation in this area will be extended to a depth of 30 inches below ground surface as part of the site wide soil excavation program in 2018.



SEH Excavation Area

The extent of the excavation and the locations of the samples are depicted on Figure 1. The complete analytical laboratory reports are included in Attachment B.

Following excavation and verification sampling, polysheeting was placed at the bottom of the excavation to demarcate the extent of the excavation and the area was covered with plywood (backfilling and final restoration will be done as part of the site wide project in 2018).

### **Waste Storage and Disposal**

Waste generated during the project were managed for disposal as PCB waste. Materials were direct loaded into lined and labeled cubic yard boxes. At the end of the shift, the materials were stored in the temporary waste storage area and shipped off-site on March 20, 2018 as bulk PCB Remediation Waste



(soil, polysheeting, used PPE, etc.) for disposal at US Ecology's Wayne disposal landfill in Belleville, Michigan. A total of four cubic yard boxes of material were generated during this excavation.

### **Conclusions and Next Steps**

Based on the results of the verification sampling, PCB impacts above the CTDEEP SEH reporting threshold of 15 ppm were removed as part of the excavation. In accordance with Section 22a-6u of the Connecticut General Statutes, the excavation was completed within 90 days of becoming aware of the exceedance, and as such, the reporting requirements under that Statute are not applicable at this time.

Additional excavation of PCB impacted soils to address areas with PCBs remaining at concentrations > 1 ppm will be conducted as part of the site wide ground surfaces excavation to address PCB impacts in locations around the school.

If you have any questions or require further information, please email me at [gfranklin@woodardcurran.com](mailto:gfranklin@woodardcurran.com) or call me at (978) 482-7867.

Sincerely,

WOODARD & CURRAN INC.

A handwritten signature in black ink that reads "George J. Franklin".

George J. Franklin, CHMM  
Technical Manager

A handwritten signature in black ink that reads "Jeffrey A. Hamel".

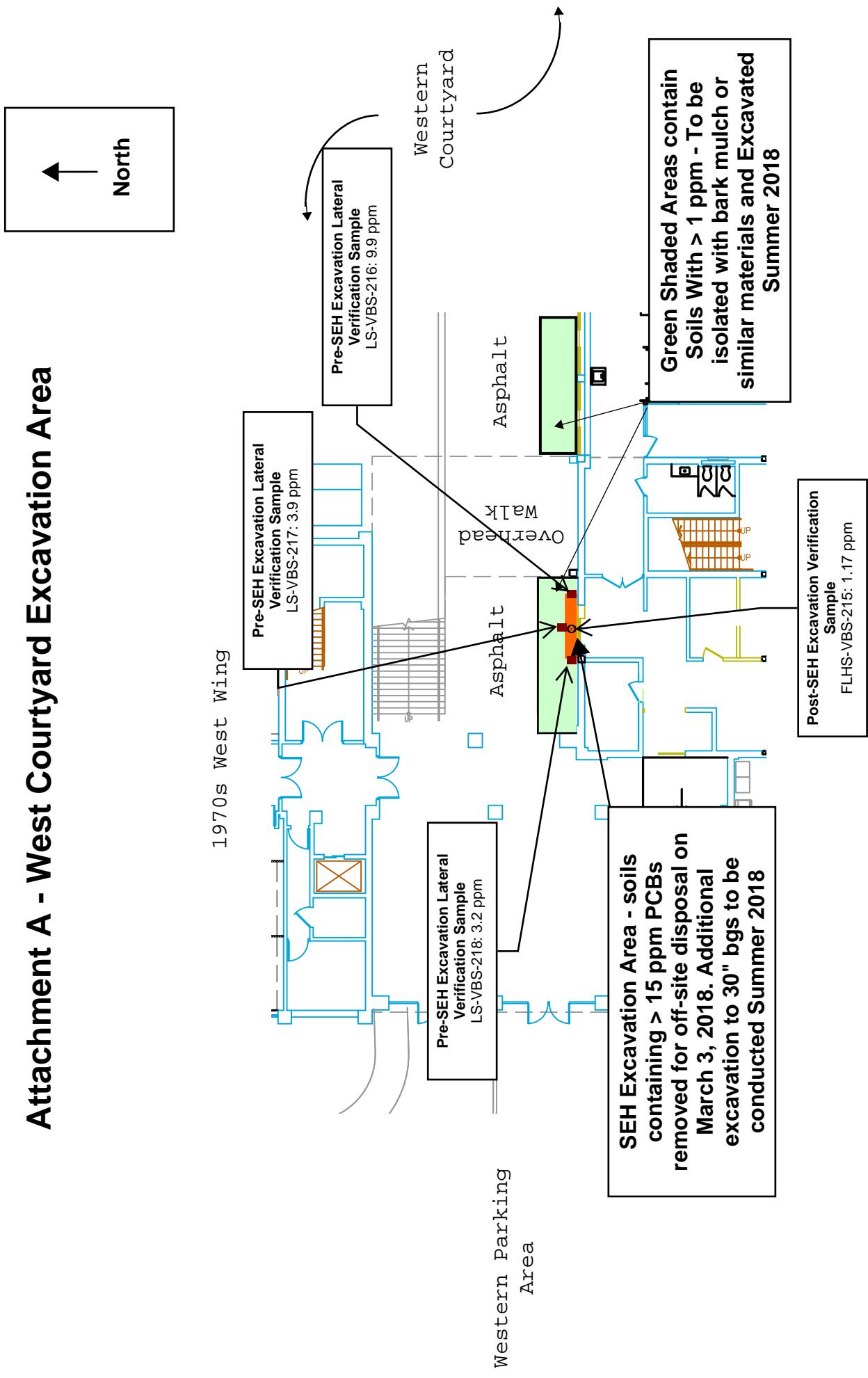
Jeffrey A. Hamel, LSP, LEP  
Senior Principal

Enclosures:      Attachment A – West Courtyard Excavation Area  
                        Attachment B – Analytical Laboratory Reports



## **ATTACHMENT A: WEST COURTYARD EXCAVATION AREA**

## Attachment A - West Courtyard Excavation Area





## **ATTACHMENT B: ANALYTICAL LABORATORY REPORTS**

**NOTE: See Accompanying CD For This Attachment**



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March 7, 2018

George Franklin  
Woodard & Curran - CT  
213 Court Street., 4th Floor  
Middletown, CT 06457

Project Location: FLHS - Fairfield  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 18C0163

Enclosed are results of analyses for samples received by the laboratory on March 5, 2018. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." sharing a common initial stroke, and "Kelley" following below.

Meghan E. Kelley  
Project Manager

## Table of Contents

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Woodard & Curran - CT  
213 Court Street., 4th Floor  
Middletown, CT 06457  
ATTN: George Franklin

REPORT DATE: 3/7/2018

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### **ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 18C0163

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

PROJECT LOCATION: FLHS - Fairfield

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FLHS-VBS-215 A (2')	18C0163-01	Soil		SM 2540G SW-846 8082A	



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**CASE NARRATIVE SUMMARY**

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

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

A handwritten signature in black ink that reads "Lisa A. Worthington". The signature is fluid and cursive, with "Lisa A." on the first line and "Worthington" on the second line.

Lisa A. Worthington  
Project Manager



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

Project Location: FLHS - Fairfield

Sample Description:

Work Order: 18C0163

Date Received: 3/5/2018

**Field Sample #:** FLHS-VBS-215 A (2')

Sampled: 3/3/2018 09:15

**Sample ID:** 18C0163-01Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1254 [1]	0.66	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1260 [1]	0.51	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	3/5/18	3/7/18 8:41	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	88.9		30-150					3/7/18 8:41	
Decachlorobiphenyl [2]	107		30-150					3/7/18 8:41	
Tetrachloro-m-xylene [1]	92.0		30-150					3/7/18 8:41	
Tetrachloro-m-xylene [2]	94.4		30-150					3/7/18 8:41	




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Project Location: FLHS - Fairfield

Sample Description:

Work Order: 18C0163

Date Received: 3/5/2018

**Field Sample #:** FLHS-VBS-215 A (2')

Sampled: 3/3/2018 09:15

**Sample ID:** 18C0163-01Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.3		% Wt	1		SM 2540G	3/6/18	3/6/18 9:38	MJR



---

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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
18C0163-01 [FLHS-VBS-215 A (2')]	B198256	03/06/18

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
18C0163-01 [FLHS-VBS-215 A (2')]	B198248	10.4	10.0	03/05/18



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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	RPD Limit	Notes
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**Batch B198248 - SW-846 3540C**

<b>Blank (B198248-BLK1)</b>					Prepared: 03/05/18 Analyzed: 03/07/18					
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	0.194		mg/Kg wet	0.200		96.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.225		mg/Kg wet	0.200		112		30-150		
Surrogate: Tetrachloro-m-xylene	0.195		mg/Kg wet	0.200		97.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.210		mg/Kg wet	0.200		105		30-150		

<b>LCS (B198248-BS1)</b>					Prepared: 03/05/18 Analyzed: 03/07/18					
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		93.9		40-140		
Aroclor-1016 [2C]	0.19	0.020	mg/Kg wet	0.200		97.4		40-140		
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.3		40-140		
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		91.1		40-140		
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.3		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.214		mg/Kg wet	0.200		107		30-150		
Surrogate: Tetrachloro-m-xylene	0.176		mg/Kg wet	0.200		88.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.189		mg/Kg wet	0.200		94.5		30-150		

<b>LCS Dup (B198248-BSD1)</b>					Prepared: 03/05/18 Analyzed: 03/07/18					
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.0		40-140	2.27	30
Aroclor-1016 [2C]	0.20	0.020	mg/Kg wet	0.200		100		40-140	2.86	30
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		94.0		40-140	4.03	30
Aroclor-1260 [2C]	0.19	0.020	mg/Kg wet	0.200		95.1		40-140	4.25	30
Surrogate: Decachlorobiphenyl	0.196		mg/Kg wet	0.200		98.0		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.225		mg/Kg wet	0.200		112		30-150		
Surrogate: Tetrachloro-m-xylene	0.188		mg/Kg wet	0.200		93.9		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.201		mg/Kg wet	0.200		100		30-150		



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#### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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**Batch B198256 - % Solids**

Duplicate (B198256-DUP2)	<b>Source: 18C0163-01</b>		Prepared & Analyzed: 03/06/18					
% Solids	83.1	% Wt		82.3		1.05	20	



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

FLHS-VBS-215 A (2')

Lab Sample ID: 18C0163-01 Date(s) Analyzed: 03/07/2018 03/07/2018

Date(s) Analyzed: 03/07/2018 03/07/2018

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.66	
	2	0.000	-0.030	0.030	0.50	27.6
Aroclor-1260	1	0.000	-0.030	0.030	0.51	
	2	0.000	-0.030	0.030	0.42	19.4



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**FLAG/QUALIFIER SUMMARY**

- \* QC result is outside of established limits.
- † Wide recovery limits established for difficult compound.
- ‡ Wide RPD limits established for difficult compound.
- # Data exceeded client recommended or regulatory level
- ND Not Detected
- RL Reporting Limit is at the level of quantitation (LOQ)
- DL Detection Limit is the lower limit of detection determined by the MDL study
- MCL Maximum Contaminant Level

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

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



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC - ISO17025:2005	100033	03/1/2020
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	02/5/2019
RI	Rhode Island Department of Health	LAO00112	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
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

**Requested Time/Limited Time**7-Day 10-Day Due Date: **5/1/18**1-Day 3-Day 2-Day 4-Day Composite Grab Other: CLP Like Data Pkg Required: Email To: **gfranklin@verizon.net**Fax To #: **503-222-4253****ANALYSIS REQUESTED**

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Doc# 277 Rev 5 2017

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

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

Client woodard & corranReceived By ESDDate 3-5-18Time 17:15

How were the samples received?

In Cooler T

No Cooler \_\_\_\_\_

On Ice T

T

No Ice \_\_\_\_\_

Direct from Sampling

Ambient \_\_\_\_\_

Melted Ice \_\_\_\_\_

Were samples within Temperature? 2-6°C

TBy Gun # 547Actual Temp - 2.3

By Blank # \_\_\_\_\_

Actual Temp - \_\_\_\_\_

Was Custody Seal Intact?

NA

Were Samples Tampered with?

NA

Was COC Relinquished?

T

Does Chain Agree With Samples?

T

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

F

Is COC in ink/ Legible?

T

Were samples received within holding time?

T

Did COC include all pertinent Information?

ClientT

Analysis ID's

T

Sampler Name

T

ID's

Collection Dates/Times

T

Are Sample labels filled out and legible?

T

Are there Lab to Filters?

F

Who was notified?

Are there Rushes?

T

Who was notified?

Are there Short Holds?

P

Who was notified?

Is there enough Volume?

TMS/MSD? F

Is there Headspace where applicable?

F

Is splitting samples required?

Proper Media/Containers Used?

TF

Were trip blanks received?

FOn COC? F

Do all samples have the proper pH?

NA

Acid \_\_\_\_\_

Base \_\_\_\_\_

#

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

## Unused Media

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

Comments:



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

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

**Client:** Woodard & Curran - CT

**Project Location:** FLHS - Fairfield

**Project Number:** 18C0163

**Laboratory Sample ID(s):**

18C0163-01

**Sample Date(s):**

03/03/2018

*List RCP Methods Used:*

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 <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 type="checkbox"/> Yes <input type="checkbox"/> No <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 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 checked="" type="checkbox"/> Yes <input 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: 03/07/18

Name of Laboratory: Con-Test Analytical Laboratory

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



## ATTACHMENT B: ANALYTICAL LABORATORY REPORTS

**NOTE: See Accompanying CD For This Attachment**



---

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

April 21, 2016

George Franklin  
Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410

Project Location: Fairfield, CT  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 16D0623

Enclosed are results of analyses for samples received by the laboratory on April 14, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." on the first line and "Kelley" on the second line.

Meghan E. Kelley  
Project Manager

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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: George Franklin

REPORT DATE: 4/21/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16D0623

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-VS-102-(0-3")	16D0623-01	Soil		SM 2540G SW-846 8082A	
LS-VS-103-(0-3")	16D0623-02	Soil		SM 2540G SW-846 8082A	
LS-VS-104-(0-3")	16D0623-03	Soil		SM 2540G SW-846 8082A	
LS-VS-105-(0-3")	16D0623-04	Soil		SM 2540G SW-846 8082A	
LS-VS-106-(0-3")	16D0623-05	Soil		SM 2540G SW-846 8082A	
LS-VS-109-(12-15")	16D0623-06	Soil		SM 2540G SW-846 8082A	
LS-VS-110-(0-3")	16D0623-07	Soil		SM 2540G SW-846 8082A	
LS-VS-111-(12-15")	16D0623-08	Soil		SM 2540G SW-846 8082A	
LS-VS-112-(0-3")	16D0623-09	Soil		SM 2540G SW-846 8082A	
LS-VS-113-(0-3")	16D0623-10	Soil		SM 2540G SW-846 8082A	
LS-VS-114-(0-3")	16D0623-11	Soil		SM 2540G SW-846 8082A	
LS-VS-115-(0-3")	16D0623-12	Soil		SM 2540G SW-846 8082A	
LS-VS-116-(12-15")	16D0623-13	Soil		SM 2540G SW-846 8082A	
LS-VS-119-(0-3")	16D0623-14	Soil		SM 2540G SW-846 8082A	
LS-VS-120-(0-3")	16D0623-15	Soil		SM 2540G SW-846 8082A	
LS-VS-121-(0-3")	16D0623-16	Soil		SM 2540G SW-846 8082A	
LS-VS-122-(0-3")	16D0623-17	Soil		SM 2540G SW-846 8082A	
LS-VS-123-(0-3")	16D0623-18	Soil		SM 2540G SW-846 8082A	
LS-VS-124-(30-33")	16D0623-19	Soil		SM 2540G SW-846 8082A	
LS-VS-125-(0-3")	16D0623-20	Soil		SM 2540G SW-846 8082A	



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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

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**Qualifications:****P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

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

16D0623-15[LS-VS-120-(0-3")]

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 that reads "Lisa A. Worthington". The signature is fluid and cursive, with "Lisa A." on the first line and "Worthington" on the second line.

Lisa A. Worthington  
Project Manager



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-102-(0-3")

Sampled: 4/13/2016 09:50

**Sample ID:** 16D0623-01Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:38	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	75.1	30-150							4/19/16 17:38
Decachlorobiphenyl [2]	73.9	30-150							4/19/16 17:38
Tetrachloro-m-xylene [1]	86.1	30-150							4/19/16 17:38
Tetrachloro-m-xylene [2]	84.0	30-150							4/19/16 17:38




---

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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-102-(0-3")

Sampled: 4/13/2016 09:50

**Sample ID:** 16D0623-01Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	88.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-103-(0-3")

Sampled: 4/13/2016 09:55

**Sample ID:** 16D0623-02Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1254 [1]	0.25	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 17:51	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.5	30-150							4/19/16 17:51
Decachlorobiphenyl [2]	87.4	30-150							4/19/16 17:51
Tetrachloro-m-xylene [1]	99.9	30-150							4/19/16 17:51
Tetrachloro-m-xylene [2]	98.0	30-150							4/19/16 17:51




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-103-(0-3")

Sampled: 4/13/2016 09:55

**Sample ID:** 16D0623-02Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-104-(0-3")

Sampled: 4/13/2016 10:00

**Sample ID:** 16D0623-03

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1254 [1]	0.38	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1260 [1]	0.19	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:04	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	80.8		30-150					4/19/16 18:04	
Decachlorobiphenyl [2]	78.9		30-150					4/19/16 18:04	
Tetrachloro-m-xylene [1]	88.1		30-150					4/19/16 18:04	
Tetrachloro-m-xylene [2]	86.7		30-150					4/19/16 18:04	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-104-(0-3")

Sampled: 4/13/2016 10:00

**Sample ID:** 16D0623-03Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-105-(0-3")

Sampled: 4/13/2016 10:05

**Sample ID:** 16D0623-04Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 18:16	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:16	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.3	30-150							4/19/16 18:16
Decachlorobiphenyl [2]	82.5	30-150							4/19/16 18:16
Tetrachloro-m-xylene [1]	90.5	30-150							4/19/16 18:16
Tetrachloro-m-xylene [2]	88.7	30-150							4/19/16 18:16




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-105-(0-3")

Sampled: 4/13/2016 10:05

**Sample ID:** 16D0623-04Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-106-(0-3")

Sampled: 4/13/2016 10:10

**Sample ID:** 16D0623-05Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 18:29	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:29	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	89.8	30-150					4/19/16 18:29		
Decachlorobiphenyl [2]	84.3	30-150					4/19/16 18:29		
Tetrachloro-m-xylene [1]	91.7	30-150					4/19/16 18:29		
Tetrachloro-m-xylene [2]	89.9	30-150					4/19/16 18:29		




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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-106-(0-3")

Sampled: 4/13/2016 10:10

**Sample ID:** 16D0623-05Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-109-(12-15")

Sampled: 4/13/2016 10:25

**Sample ID:** 16D0623-06Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:41	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.3	30-150							4/19/16 18:41
Decachlorobiphenyl [2]	70.5	30-150							4/19/16 18:41
Tetrachloro-m-xylene [1]	87.3	30-150							4/19/16 18:41
Tetrachloro-m-xylene [2]	85.2	30-150							4/19/16 18:41




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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-109-(12-15")

Sampled: 4/13/2016 10:25

**Sample ID:** 16D0623-06Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	90.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-110-(0-3")

Sampled: 4/13/2016 10:30

**Sample ID:** 16D0623-07Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 18:54	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1254 [1]	0.49	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 18:54	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.3	30-150							4/19/16 18:54
Decachlorobiphenyl [2]	64.5	30-150							4/19/16 18:54
Tetrachloro-m-xylene [1]	82.6	30-150							4/19/16 18:54
Tetrachloro-m-xylene [2]	81.0	30-150							4/19/16 18:54




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-110-(0-3")

Sampled: 4/13/2016 10:30

**Sample ID:** 16D0623-07Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-111-(12-15")

Sampled: 4/13/2016 10:35

**Sample ID:** 16D0623-08Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 19:07	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:07	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	76.1	30-150					4/19/16 19:07		
Decachlorobiphenyl [2]	77.4	30-150					4/19/16 19:07		
Tetrachloro-m-xylene [1]	93.9	30-150					4/19/16 19:07		
Tetrachloro-m-xylene [2]	91.7	30-150					4/19/16 19:07		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-111-(12-15")

Sampled: 4/13/2016 10:35

**Sample ID:** 16D0623-08Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-112-(0-3")

Sampled: 4/13/2016 10:55

**Sample ID:** 16D0623-09Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1221 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1232 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1242 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1248 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1254 [1]	1.1	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1260 [1]	1.7	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1262 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Aroclor-1268 [1]	ND	0.49	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 16:23	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	95.0		30-150						4/20/16 16:23
Decachlorobiphenyl [2]	90.5		30-150						4/20/16 16:23
Tetrachloro-m-xylene [1]	84.9		30-150						4/20/16 16:23
Tetrachloro-m-xylene [2]	85.3		30-150						4/20/16 16:23




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-112-(0-3")

Sampled: 4/13/2016 10:55

**Sample ID:** 16D0623-09Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-113-(0-3")

Sampled: 4/13/2016 11:00

**Sample ID:** 16D0623-10Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 19:32	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1254 [1]	0.19	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 19:32	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	80.7	30-150							4/19/16 19:32
Decachlorobiphenyl [2]	78.2	30-150							4/19/16 19:32
Tetrachloro-m-xylene [1]	90.4	30-150							4/19/16 19:32
Tetrachloro-m-xylene [2]	88.8	30-150							4/19/16 19:32




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-113-(0-3")

Sampled: 4/13/2016 11:00

**Sample ID:** 16D0623-10Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-114-(0-3")

Sampled: 4/13/2016 11:05

**Sample ID:** 16D0623-11Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 20:22	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1254 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1260 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:22	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	82.1	30-150							4/19/16 20:22
Decachlorobiphenyl [2]	78.3	30-150							4/19/16 20:22
Tetrachloro-m-xylene [1]	89.6	30-150							4/19/16 20:22
Tetrachloro-m-xylene [2]	87.5	30-150							4/19/16 20:22




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-114-(0-3")

Sampled: 4/13/2016 11:05

**Sample ID:** 16D0623-11Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.1		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-115-(0-3")

Sampled: 4/13/2016 11:10

**Sample ID:** 16D0623-12Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 20:35	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:35	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	86.2	30-150							4/19/16 20:35
Decachlorobiphenyl [2]	82.1	30-150							4/19/16 20:35
Tetrachloro-m-xylene [1]	94.3	30-150							4/19/16 20:35
Tetrachloro-m-xylene [2]	92.0	30-150							4/19/16 20:35




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-115-(0-3")

Sampled: 4/13/2016 11:10

**Sample ID:** 16D0623-12Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-116-(12-15")

Sampled: 4/13/2016 11:15

**Sample ID:** 16D0623-13Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 20:47	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1254 [2]	0.18	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1260 [1]	0.49	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 20:47	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	82.2		30-150					4/19/16 20:47	
Decachlorobiphenyl [2]	79.5		30-150					4/19/16 20:47	
Tetrachloro-m-xylene [1]	93.4		30-150					4/19/16 20:47	
Tetrachloro-m-xylene [2]	91.2		30-150					4/19/16 20:47	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-116-(12-15")

Sampled: 4/13/2016 11:15

**Sample ID:** 16D0623-13Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-119-(0-3")

Sampled: 4/13/2016 11:40

**Sample ID:** 16D0623-14Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.44	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 13:49	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	104	30-150					4/20/16 13:49		
Decachlorobiphenyl [2]	99.8	30-150					4/20/16 13:49		
Tetrachloro-m-xylene [1]	92.2	30-150					4/20/16 13:49		
Tetrachloro-m-xylene [2]	92.2	30-150					4/20/16 13:49		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-119-(0-3")

Sampled: 4/13/2016 11:40

**Sample ID:** 16D0623-14Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-120-(0-3")

Sampled: 4/13/2016 11:45

**Sample ID:** 16D0623-15Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1221 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1232 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1242 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1248 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1254 [1]	2.3	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1260 [1]	0.75	0.51	mg/Kg dry	20	P-01	SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1262 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Aroclor-1268 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/15/16	4/20/16 14:02	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	104		30-150					4/20/16 14:02	
Decachlorobiphenyl [2]	102		30-150					4/20/16 14:02	
Tetrachloro-m-xylene [1]	95.0		30-150					4/20/16 14:02	
Tetrachloro-m-xylene [2]	94.3		30-150					4/20/16 14:02	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-120-(0-3")

Sampled: 4/13/2016 11:45

**Sample ID:** 16D0623-15Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.7		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-121-(0-3")

Sampled: 4/13/2016 11:50

**Sample ID:** 16D0623-16Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 21:25	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1254 [2]	0.36	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1260 [1]	0.22	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:25	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	85.3		30-150						4/19/16 21:25
Decachlorobiphenyl [2]	85.3		30-150						4/19/16 21:25
Tetrachloro-m-xylene [1]	92.9		30-150						4/19/16 21:25
Tetrachloro-m-xylene [2]	89.2		30-150						4/19/16 21:25




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-121-(0-3")

Sampled: 4/13/2016 11:50

**Sample ID:** 16D0623-16Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-122-(0-3")

Sampled: 4/13/2016 11:55

**Sample ID:** 16D0623-17Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 21:38	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1254 [1]	0.31	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:38	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	84.9		30-150					4/19/16 21:38	
Decachlorobiphenyl [2]	80.8		30-150					4/19/16 21:38	
Tetrachloro-m-xylene [1]	96.0		30-150					4/19/16 21:38	
Tetrachloro-m-xylene [2]	92.2		30-150					4/19/16 21:38	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-122-(0-3")

Sampled: 4/13/2016 11:55

**Sample ID:** 16D0623-17Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-123-(0-3")

Sampled: 4/13/2016 12:00

**Sample ID:** 16D0623-18Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 21:50	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 21:50	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.5	30-150							4/19/16 21:50
Decachlorobiphenyl [2]	81.9	30-150							4/19/16 21:50
Tetrachloro-m-xylene [1]	92.8	30-150							4/19/16 21:50
Tetrachloro-m-xylene [2]	90.8	30-150							4/19/16 21:50




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-123-(0-3")

Sampled: 4/13/2016 12:00

**Sample ID:** 16D0623-18Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-124-(30-33")

Sampled: 4/13/2016 12:05

**Sample ID:** 16D0623-19Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:03	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	89.5	30-150					4/19/16 22:03		
Decachlorobiphenyl [2]	84.4	30-150					4/19/16 22:03		
Tetrachloro-m-xylene [1]	92.4	30-150					4/19/16 22:03		
Tetrachloro-m-xylene [2]	90.0	30-150					4/19/16 22:03		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-124-(30-33")

Sampled: 4/13/2016 12:05

**Sample ID:** 16D0623-19Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-125-(0-3")

Sampled: 4/13/2016 12:10

**Sample ID:** 16D0623-20Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 22:15	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1254 [2]	0.38	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1260 [1]	0.28	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 22:15	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	89.6		30-150						4/19/16 22:15
Decachlorobiphenyl [2]	88.0		30-150						4/19/16 22:15
Tetrachloro-m-xylene [1]	96.1		30-150						4/19/16 22:15
Tetrachloro-m-xylene [2]	92.2		30-150						4/19/16 22:15




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0623

Date Received: 4/14/2016

**Field Sample #:** LS-VS-125-(0-3")

Sampled: 4/13/2016 12:10

**Sample ID:** 16D0623-20Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	68.8		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
16D0623-01 [LS-VS-102-(0-3")]	B146980	04/18/16
16D0623-02 [LS-VS-103-(0-3")]	B146980	04/18/16
16D0623-03 [LS-VS-104-(0-3")]	B146980	04/18/16
16D0623-04 [LS-VS-105-(0-3")]	B146980	04/18/16
16D0623-05 [LS-VS-106-(0-3")]	B146980	04/18/16
16D0623-06 [LS-VS-109-(12-15")]	B146980	04/18/16
16D0623-07 [LS-VS-110-(0-3")]	B146980	04/18/16
16D0623-08 [LS-VS-111-(12-15")]	B146980	04/18/16
16D0623-09 [LS-VS-112-(0-3")]	B146980	04/18/16
16D0623-10 [LS-VS-113-(0-3")]	B146980	04/18/16
16D0623-11 [LS-VS-114-(0-3")]	B146980	04/18/16
16D0623-12 [LS-VS-115-(0-3")]	B146980	04/18/16
16D0623-13 [LS-VS-116-(12-15")]	B146980	04/18/16
16D0623-14 [LS-VS-119-(0-3")]	B146980	04/18/16
16D0623-15 [LS-VS-120-(0-3")]	B146980	04/18/16
16D0623-16 [LS-VS-121-(0-3")]	B146980	04/18/16
16D0623-17 [LS-VS-122-(0-3")]	B146980	04/18/16
16D0623-18 [LS-VS-123-(0-3")]	B146980	04/18/16
16D0623-19 [LS-VS-124-(30-33")]	B146980	04/18/16
16D0623-20 [LS-VS-125-(0-3")]	B146980	04/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16D0623-01 [LS-VS-102-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-02 [LS-VS-103-(0-3")]	B146789	10.4	10.0	04/15/16
16D0623-03 [LS-VS-104-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-04 [LS-VS-105-(0-3")]	B146789	10.0	10.0	04/15/16
16D0623-05 [LS-VS-106-(0-3")]	B146789	10.4	10.0	04/15/16
16D0623-06 [LS-VS-109-(12-15")]	B146789	10.1	10.0	04/15/16
16D0623-07 [LS-VS-110-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-08 [LS-VS-111-(12-15")]	B146789	10.1	10.0	04/15/16
16D0623-09 [LS-VS-112-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-10 [LS-VS-113-(0-3")]	B146789	10.2	10.0	04/15/16
16D0623-11 [LS-VS-114-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-12 [LS-VS-115-(0-3")]	B146789	10.2	10.0	04/15/16
16D0623-13 [LS-VS-116-(12-15")]	B146789	10.1	10.0	04/15/16
16D0623-14 [LS-VS-119-(0-3")]	B146789	10.3	10.0	04/15/16
16D0623-15 [LS-VS-120-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-16 [LS-VS-121-(0-3")]	B146789	10.2	10.0	04/15/16
16D0623-17 [LS-VS-122-(0-3")]	B146789	10.3	10.0	04/15/16
16D0623-18 [LS-VS-123-(0-3")]	B146789	10.1	10.0	04/15/16
16D0623-19 [LS-VS-124-(30-33")]	B146789	10.1	10.0	04/15/16
16D0623-20 [LS-VS-125-(0-3")]	B146789	10.4	10.0	04/15/16



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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	RPD Limit	Notes
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**Batch B146789 - SW-846 3540C**

<b>Blank (B146789-BLK1)</b>										Prepared: 04/15/16 Analyzed: 04/19/16
Aroclor-1016	ND	0.020	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1221	ND	0.020	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1232	ND	0.020	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1242	ND	0.020	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1248	ND	0.020	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1254	ND	0.020	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1260	ND	0.020	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1262	ND	0.020	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.020	mg/Kg wet							
Aroclor-1268	ND	0.020	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.020	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.193		mg/Kg wet	0.200		96.5		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		89.1		30-150		
Surrogate: Tetrachloro-m-xylene	0.187		mg/Kg wet	0.200		93.6		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.178		mg/Kg wet	0.200		89.2		30-150		

<b>LCS (B146789-BS1)</b>										Prepared: 04/15/16 Analyzed: 04/19/16
Aroclor-1016	0.19	0.020	mg/Kg wet	0.200		96.1		40-140		
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200		91.5		40-140		
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		90.1		40-140		
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		85.1		40-140		
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.200		93.6		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.174		mg/Kg wet	0.200		86.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.181		mg/Kg wet	0.200		90.7		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.173		mg/Kg wet	0.200		86.6		30-150		

<b>LCS Dup (B146789-BSD1)</b>										Prepared: 04/15/16 Analyzed: 04/19/16
Aroclor-1016	0.18	0.020	mg/Kg wet	0.200		91.6		40-140	4.77	30
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		86.6		40-140	5.56	30
Aroclor-1260	0.19	0.020	mg/Kg wet	0.200		93.1		40-140	3.28	30
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.0		40-140	3.40	30
Surrogate: Decachlorobiphenyl	0.191		mg/Kg wet	0.200		95.5		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.178		mg/Kg wet	0.200		88.8		30-150		
Surrogate: Tetrachloro-m-xylene	0.185		mg/Kg wet	0.200		92.4		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.175		mg/Kg wet	0.200		87.7		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 B146789 - SW-846 3540C**

Matrix Spike (B146789-MS1)	Source: 16D0623-01		Prepared: 04/15/16 Analyzed: 04/19/16						
Aroclor-1016	0.16	0.11	mg/Kg dry	0.224	ND	72.6	40-140		
Aroclor-1016 [2C]	0.18	0.11	mg/Kg dry	0.224	ND	79.8	40-140		
Aroclor-1260	0.13	0.11	mg/Kg dry	0.224	ND	56.3	40-140		
Aroclor-1260 [2C]	0.13	0.11	mg/Kg dry	0.224	ND	60.2	40-140		
Surrogate: Decachlorobiphenyl	0.110		mg/Kg dry	0.224		49.1	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.113		mg/Kg dry	0.224		50.4	30-150		
Surrogate: Tetrachloro-m-xylene	0.148		mg/Kg dry	0.224		66.0	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.145		mg/Kg dry	0.224		64.8	30-150		
Matrix Spike Dup (B146789-MSD1)	Source: 16D0623-01		Prepared: 04/15/16 Analyzed: 04/19/16						
Aroclor-1016	0.20	0.11	mg/Kg dry	0.224	ND	90.4	40-140	21.8	50
Aroclor-1016 [2C]	0.19	0.11	mg/Kg dry	0.224	ND	83.5	40-140	4.53	50
Aroclor-1260	0.15	0.11	mg/Kg dry	0.224	ND	67.5	40-140	18.1	50
Aroclor-1260 [2C]	0.16	0.11	mg/Kg dry	0.224	ND	70.8	40-140	16.1	50
Surrogate: Decachlorobiphenyl	0.123		mg/Kg dry	0.224		55.0	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.154		mg/Kg dry	0.224		68.8	30-150		
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg dry	0.224		72.3	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.157		mg/Kg dry	0.224		70.0	30-150		



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#### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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##### Batch B146980 - % Solids

Duplicate (B146980-DUP2)	<b>Source: 16D0623-01</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	87.8		% Wt		88.5		0.794	20
Duplicate (B146980-DUP3)	<b>Source: 16D0623-02</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	82.3		% Wt		84.2		2.28	20



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

**LS-VS-103-(0-3")**

Lab Sample ID: 16D0623-02 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.25	
	2	0.00	-0.03	0.03	0.24	5.3



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## **IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES**

LS-VS-104-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-03

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2)

### GC Column (1):

ID: (mm)

GC Column (2)

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.38	
	2	0.00	-0.03	0.03	0.35	9.3
Aroclor-1260	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.14	30.8



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-110-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-07

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.49	
	2	0.00	-0.03	0.03	0.44	11.4



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-112-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-09 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	1.1	
	2	0.00	-0.03	0.03	1.0	8.6
Aroclor-1260	1	0.00	-0.03	0.03	1.7	
	2	0.00	-0.03	0.03	1.6	6.7



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-113-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-10

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.17	10.6



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-116-(12-15")**

Lab Sample ID: 16D0623-13 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.18	2.8
Aroclor-1260	1	0.00	-0.03	0.03	0.49	
	2	0.00	-0.03	0.03	0.46	5.7



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-119-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-14 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	1.3	
	2	0.00	-0.03	0.03	1.1	18.9
Aroclor-1260	1	0.00	-0.03	0.03	0.62	
	2	0.00	-0.03	0.03	0.51	20.1



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-120-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-15 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	2.3	
	2	0.00	-0.03	0.03	1.9	18.2



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-121-(0-3")**

Lab Sample ID: 16D0623-16 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.36	
	2	0.00	-0.03	0.03	0.36	1.1
Aroclor-1260	1	0.00	-0.03	0.03	0.22	
	2	0.00	-0.03	0.03	0.16	29.3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-122-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0623-17 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.31	
	2	0.00	-0.03	0.03	0.30	3.0



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-125-(0-3")**

Lab Sample ID: 16D0623-20 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.35	
	2	0.00	-0.03	0.03	0.38	7.9
Aroclor-1260	1	0.00	-0.03	0.03	0.28	
	2	0.00	-0.03	0.03	0.22	25.7



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS

*SW-846 8082A*

Lab Sample ID: B146789-BS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.18	6
Aroclor-1260	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.17	6



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS.Dup

*SW-846 8082A*

Lab Sample ID: B146789-BSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.17	7
Aroclor-1260	1	0.00	-0.03	0.03	0.19	
	2	0.00	-0.03	0.03	0.18	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

## Matrix Spike

*SW-846 8082A*

Lab Sample ID: B146789-MS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.18	10
Aroclor-1260	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.13	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

## Matrix Spike Dup

Lab Sample ID: B146789-MSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

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

## Instrument ID (2)

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.19	6
Aroclor-1260	1	0.00	-0.03	0.03	0.15	
	2	0.00	-0.03	0.03	0.16	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.

P-01      Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016



# CHAIN OF CUSTODY RECORD

16 DOGQZ3  
Rev. 04.05.12

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

39 Spruce Street  
East Longmeadow, MA 01028

Page 1 of 5

# of Containers
**Preservation

\*\*\*Container Code

## ANALYSIS REQUESTED

Dissolved Metals
<input type="radio"/> Field Filtered
<input type="radio"/> Lab to Filter

\*\*\*Cont. Code:

A=Amber Glass

G=glass

P=plastic

S=sterile

V=vial

S=Summa can

T=tetrahd bag

O=Other

I = Iced

H = HCl

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfate

X = Na hydroxide

T = Na thiosulfate

O = Other

\*\*preservation

L = Low

M = Medium

H = High

C = Clean

U = Unknown

A = air

S = soil/solid

WW = wastewater

DW = drinking water

SL = sludge

O = other

Company Name: Woodard & Curran  
Address: 1520 Highland Ave  
Cheshire CT 06410  
Attention: George Frank Klin  
Project Location: Fairfield, CT  
Sampled By: Greg Reynolds  
Project Proposal Provided? (for billing purposes)  
 yes  
 proposal date

Project # 228875

Client PO#

DATA DELIVERY (check all that apply)

FAX  EMAIL  WEBSITE

Fax #

Email: gfrank.klin@wac.com

Format: PDF  EXCEL  GIS

OTHER

Con-Test Lab ID (laboratory use only)	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab Code	Matrix	Lane Code	Collection										
								"Enhanced Data Package"										
01	LS-US-102-(0-3")	4-13-16	0950	X	X	S	U	X	X	X	X	X	X	X	X	X	X	
02	LS-US-103-(0-3")		0955	X	X	S	U											
03	LS-US-104-(0-3")		1000	X	S	U	X											
04	LS-US-105-(0-3")		1005	X	S	U	X											
05	LS-US-106-(0-3")		1010	X	S	U	X											
06	LS-US-109-(12-15")		1025	X	S	U	X											
07	LS-US-110-(0-3")		1030	X	S	U	X											
08	LS-US-111-(12-15")		1035	X	S	U	X											
09	LS-US-112-(0-3")		1055	X	S	U	X											
10	LS-US-113-(0-3")		1100	X	S	U	X											

Comments:  
PCBs via USEPA 8087 w/ soxlet extraction (3540c)

Turnaround	<input checked="" type="checkbox"/> 7-Day	<input type="checkbox"/> 10-Day	<input type="checkbox"/> Other
------------	---	---------------------------------	--------------------------------

Date/Time:	<input type="checkbox"/> RUSH <input checked="" type="checkbox"/> 24-Hr <input type="checkbox"/> 72-Hr <input type="checkbox"/> 4-Day
------------	---

Date/Time:	<input type="checkbox"/> Require lab approval <input type="checkbox"/> Other:
------------	---

Detected Limit Requirements	<input type="checkbox"/> Massachusetts
-----------------------------	--

Is your project MCP or RCP?	<input type="checkbox"/> MCP Form Required
	<input checked="" type="checkbox"/> RCP Form Required

MA State DW Form Required PWSID #

NELAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certificate



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Page 1 of 2

## Sample Receipt Checklist

**CLIENT NAME:** Woodard & Curran      **RECEIVED BY:** PB      **DATE:** 4/14/2016

**1) Was the chain(s) of custody relinquished and signed?** Yes x No \_\_\_\_\_ **No COC Incl.**

**2) Does the chain agree with the samples?** Yes x No \_\_\_\_\_

If not, explain:

**3) Are all the samples in good condition?** Yes x No \_\_\_\_\_

If not, explain:

**4) How were the samples received:**

On Ice x Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ In Cooler(s) x

**Were the samples received in Temperature Compliance of (2-6°C)?** Yes x No \_\_\_\_\_ N/A \_\_\_\_\_

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun \_\_\_\_\_ 5.1

**5) Are there Dissolved samples for the lab to filter?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

**6) Are there any RUSH or SHORT HOLDING TIME samples?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Login

Permission to subcontract samples? Yes x No \_\_\_\_\_

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

**7) Location where samples are stored:**

**8) Do all samples have the proper Acid pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**9) Do all samples have the proper Base pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**10) Was the PC notified of any discrepancies with the CoC vs the samples:** Yes \_\_\_\_\_ N/A x

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	<u>#</u>	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	20 Ambers
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
Dpc# 277: # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013: # Thiosulfate _____	Unpreserved	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: PB

Date/Time: 4/14/16



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

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

**Client:** Woodard & Curran - CT

**Project Location:** Fairfield, CT

**Project Number:** 16D0623

**Laboratory Sample ID(s):**

16D0623-01 thru 16D0623-20

**Sample Date(s):**

04/13/2016

*List RCP Methods Used:*

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 <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 <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 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 checked="" type="checkbox"/> Yes <input 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: 04/21/16

Name of Laboratory: Con-Test Analytical Laboratory

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



---

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

April 21, 2016

George Franklin  
Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410

Project Location: Fairfield, CT  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 16D0627

Enclosed are results of analyses for samples received by the laboratory on April 14, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." on the first line and "Kelley" on the second line.

Meghan E. Kelley  
Project Manager

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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: George Franklin

REPORT DATE: 4/21/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16D0627

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-VS-126-(0-3")	16D0627-01	Soil		SM 2540G SW-846 8082A	
LS-VS-127-(0-3")	16D0627-02	Soil		SM 2540G SW-846 8082A	
LS-VS-128-(12-15")	16D0627-03	Soil		SM 2540G SW-846 8082A	
LS-VS-129-(0-3")	16D0627-04	Soil		SM 2540G SW-846 8082A	
LS-VS-130-(0-3")	16D0627-05	Soil		SM 2540G SW-846 8082A	
LS-VS-131-(0-3")	16D0627-06	Soil		SM 2540G SW-846 8082A	
LS-VS-132-(0-3")	16D0627-07	Soil		SM 2540G SW-846 8082A	
LS-VS-133-(0-3")	16D0627-08	Soil		SM 2540G SW-846 8082A	
LS-VS-134-(0-3")	16D0627-09	Soil		SM 2540G SW-846 8082A	
LS-VS-135-(0-3")	16D0627-10	Soil		SM 2540G SW-846 8082A	
LS-VS-136-(0-3")	16D0627-11	Soil		SM 2540G SW-846 8082A	
LS-VS-137-(12-15")	16D0627-12	Soil		SM 2540G SW-846 8082A	
LS-VS-138-(0-3")	16D0627-13	Soil		SM 2540G SW-846 8082A	
LS-VS-139-(0-3")	16D0627-14	Soil		SM 2540G SW-846 8082A	
LS-VS-140-(0-3")	16D0627-15	Soil		SM 2540G SW-846 8082A	
LS-VS-141-(12-15")	16D0627-16	Soil		SM 2540G SW-846 8082A	
LS-VS-142-(0-3")	16D0627-17	Soil		SM 2540G SW-846 8082A	
LS-VS-143-(0-3")	16D0627-18	Soil		SM 2540G SW-846 8082A	
LS-VS-144-(12-15")	16D0627-19	Soil		SM 2540G SW-846 8082A	
LS-VS-DUP1-(0-3")	16D0627-20	Soil		SM 2540G SW-846 8082A	




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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: George Franklin

REPORT DATE: 4/21/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### **ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 16D0627

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-VS-DUP2-(0-3")	16D0627-21	Soil		SM 2540G SW-846 8082A	
LS-VS-EB-01	16D0627-22	Equipment Blank Water		SW-846 8082A	
LS-VS-EB-02	16D0627-23	Equipment Blank Water		SW-846 8082A	



---

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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

---

**Qualifications:****MS-24**

Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.

**Analyte & Samples(s) Qualified:****Aroclor-1260 [2C]**

B146926-MSD1

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

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

A handwritten signature in black ink, appearing to read "Lisa A. Worthington".

Lisa A. Worthington  
Project Manager



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-126-(0-3")

Sampled: 4/13/2016 12:15

**Sample ID:** 16D0627-01

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	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1221 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1232 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1242 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1248 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1254 [1]	1.9	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1260 [2]	1.0	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1262 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Aroclor-1268 [1]	ND	0.52	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 13:33	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	86.4		30-150					4/20/16 13:33	
Decachlorobiphenyl [2]	106		30-150					4/20/16 13:33	
Tetrachloro-m-xylene [1]	77.2		30-150					4/20/16 13:33	
Tetrachloro-m-xylene [2]	91.5		30-150					4/20/16 13:33	




---

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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-126-(0-3")

Sampled: 4/13/2016 12:15

**Sample ID:** 16D0627-01Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-127-(0-3")

Sampled: 4/13/2016 12:20

**Sample ID:** 16D0627-02Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 20:33	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1254 [2]	0.23	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1260 [2]	0.60	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 20:33	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.7	30-150					4/19/16 20:33		
Decachlorobiphenyl [2]	84.0	30-150					4/19/16 20:33		
Tetrachloro-m-xylene [1]	73.2	30-150					4/19/16 20:33		
Tetrachloro-m-xylene [2]	73.7	30-150					4/19/16 20:33		




---

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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-127-(0-3")

Sampled: 4/13/2016 12:20

**Sample ID:** 16D0627-02Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.9		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-128-(12-15")

Sampled: 4/13/2016 12:25

**Sample ID:** 16D0627-03Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 20:51	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	75.0	30-150					4/19/16 20:51		
Decachlorobiphenyl [2]	88.9	30-150					4/19/16 20:51		
Tetrachloro-m-xylene [1]	68.4	30-150					4/19/16 20:51		
Tetrachloro-m-xylene [2]	63.3	30-150					4/19/16 20:51		




---

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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-128-(12-15")

Sampled: 4/13/2016 12:25

**Sample ID:** 16D0627-03Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-129-(0-3")

Sampled: 4/13/2016 12:28

**Sample ID:** 16D0627-04Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 21:10	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1254 [2]	0.15	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:10	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.4	30-150							4/19/16 21:10
Decachlorobiphenyl [2]	82.7	30-150							4/19/16 21:10
Tetrachloro-m-xylene [1]	71.0	30-150							4/19/16 21:10
Tetrachloro-m-xylene [2]	73.9	30-150							4/19/16 21:10




---

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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-129-(0-3")

Sampled: 4/13/2016 12:28

**Sample ID:** 16D0627-04Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	80.1		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-130-(0-3")

Sampled: 4/13/2016 12:30

**Sample ID:** 16D0627-05Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 21:28	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1254 [2]	0.50	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:28	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	63.4	30-150					4/19/16 21:28		
Decachlorobiphenyl [2]	76.7	30-150					4/19/16 21:28		
Tetrachloro-m-xylene [1]	61.6	30-150					4/19/16 21:28		
Tetrachloro-m-xylene [2]	60.5	30-150					4/19/16 21:28		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-130-(0-3")

Sampled: 4/13/2016 12:30

**Sample ID:** 16D0627-05Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	76.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-131-(0-3")

Sampled: 4/13/2016 12:35

**Sample ID:** 16D0627-06Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 21:47	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1254 [2]	0.30	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 21:47	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	61.2	30-150					4/19/16 21:47		
Decachlorobiphenyl [2]	76.5	30-150					4/19/16 21:47		
Tetrachloro-m-xylene [1]	57.3	30-150					4/19/16 21:47		
Tetrachloro-m-xylene [2]	54.7	30-150					4/19/16 21:47		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-131-(0-3")

Sampled: 4/13/2016 12:35

**Sample ID:** 16D0627-06Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	71.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-132-(0-3")

Sampled: 4/13/2016 12:40

**Sample ID:** 16D0627-07Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 22:05	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1254 [2]	0.61	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1260 [2]	0.14	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:05	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.3	30-150					4/19/16 22:05		
Decachlorobiphenyl [2]	67.5	30-150					4/19/16 22:05		
Tetrachloro-m-xylene [1]	56.9	30-150					4/19/16 22:05		
Tetrachloro-m-xylene [2]	54.1	30-150					4/19/16 22:05		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-132-(0-3")

Sampled: 4/13/2016 12:40

**Sample ID:** 16D0627-07Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-133-(0-3")

Sampled: 4/13/2016 13:00

**Sample ID:** 16D0627-08Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 22:23	KAL
Aroclor-1221 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1232 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1242 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1248 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1254 [1]	0.73	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1260 [1]	1.3	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1262 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Aroclor-1268 [1]	ND	0.14	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:23	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	54.8		30-150						4/19/16 22:23
Decachlorobiphenyl [2]	70.7		30-150						4/19/16 22:23
Tetrachloro-m-xylene [1]	49.7		30-150						4/19/16 22:23
Tetrachloro-m-xylene [2]	46.6		30-150						4/19/16 22:23




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-133-(0-3")

Sampled: 4/13/2016 13:00

**Sample ID:** 16D0627-08Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-134-(0-3")

Sampled: 4/13/2016 13:05

**Sample ID:** 16D0627-09Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 22:41	KAL
Aroclor-1221 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1232 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1242 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1248 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1254 [1]	0.60	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1260 [1]	0.17	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1262 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Aroclor-1268 [1]	ND	0.15	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 22:41	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	50.3		30-150					4/19/16 22:41	
Decachlorobiphenyl [2]	52.7		30-150					4/19/16 22:41	
Tetrachloro-m-xylene [1]	43.9		30-150					4/19/16 22:41	
Tetrachloro-m-xylene [2]	41.9		30-150					4/19/16 22:41	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-134-(0-3")

Sampled: 4/13/2016 13:05

**Sample ID:** 16D0627-09Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	64.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-135-(0-3")

Sampled: 4/13/2016 13:10

**Sample ID:** 16D0627-10Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/19/16 23:50	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1254 [2]	1.1	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/19/16 23:50	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	61.8		30-150					4/19/16 23:50	
Decachlorobiphenyl [2]	72.1		30-150					4/19/16 23:50	
Tetrachloro-m-xylene [1]	59.7		30-150					4/19/16 23:50	
Tetrachloro-m-xylene [2]	61.6		30-150					4/19/16 23:50	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-135-(0-3")

Sampled: 4/13/2016 13:10

**Sample ID:** 16D0627-10Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	74.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-136-(0-3")

Sampled: 4/13/2016 13:15

**Sample ID:** 16D0627-11Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1221 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1232 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1242 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1248 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1254 [2]	2.1	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1260 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1262 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Aroclor-1268 [1]	ND	0.28	mg/Kg dry	10		SW-846 8082A	4/18/16	4/20/16 13:46	JMB
Surrogates		% Recovery	Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]		54.9	30-150					4/20/16 13:46	
Decachlorobiphenyl [2]		66.4	30-150					4/20/16 13:46	
Tetrachloro-m-xylene [1]		52.0	30-150					4/20/16 13:46	
Tetrachloro-m-xylene [2]		58.5	30-150					4/20/16 13:46	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-136-(0-3")

Sampled: 4/13/2016 13:15

**Sample ID:** 16D0627-11Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	70.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-137-(12-15")

Sampled: 4/13/2016 13:20

**Sample ID:** 16D0627-12Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/20/16 0:26	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 0:26	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	69.9	30-150							4/20/16 0:26
Decachlorobiphenyl [2]	79.3	30-150							4/20/16 0:26
Tetrachloro-m-xylene [1]	65.0	30-150							4/20/16 0:26
Tetrachloro-m-xylene [2]	68.4	30-150							4/20/16 0:26




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-137-(12-15")

Sampled: 4/13/2016 13:20

**Sample ID:** 16D0627-12Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-138-(0-3")

Sampled: 4/13/2016 13:25

**Sample ID:** 16D0627-13Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1221 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1232 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1242 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1248 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1254 [2]	2.5	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1260 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1262 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Aroclor-1268 [1]	ND	0.51	mg/Kg dry	20		SW-846 8082A	4/18/16	4/20/16 14:00	JMB
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	83.1		30-150					4/20/16 14:00	
Decachlorobiphenyl [2]	103		30-150					4/20/16 14:00	
Tetrachloro-m-xylene [1]	67.4		30-150					4/20/16 14:00	
Tetrachloro-m-xylene [2]	73.8		30-150					4/20/16 14:00	




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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-138-(0-3")

Sampled: 4/13/2016 13:25

**Sample ID:** 16D0627-13Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-139-(0-3")

Sampled: 4/13/2016 13:30

**Sample ID:** 16D0627-14Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1221 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1232 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1242 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1248 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1254 [2]	0.87	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1260 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1262 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Aroclor-1268 [1]	ND	0.17	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:03	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.2	30-150							4/20/16 1:03
Decachlorobiphenyl [2]	81.9	30-150							4/20/16 1:03
Tetrachloro-m-xylene [1]	72.0	30-150							4/20/16 1:03
Tetrachloro-m-xylene [2]	75.2	30-150							4/20/16 1:03




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-139-(0-3")

Sampled: 4/13/2016 13:30

**Sample ID:** 16D0627-14Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.4		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-140-(0-3")

Sampled: 4/13/2016 13:35

**Sample ID:** 16D0627-15Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1221 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1232 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1242 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1248 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1254 [2]	0.95	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1260 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1262 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Aroclor-1268 [1]	ND	0.31	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:21	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	44.3		30-150					4/20/16 1:21	
Decachlorobiphenyl [2]	51.7		30-150					4/20/16 1:21	
Tetrachloro-m-xylene [1]	42.8		30-150					4/20/16 1:21	
Tetrachloro-m-xylene [2]	48.0		30-150					4/20/16 1:21	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-140-(0-3")

Sampled: 4/13/2016 13:35

**Sample ID:** 16D0627-15Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	31.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-141-(12-15")

Sampled: 4/13/2016 13:40

**Sample ID:** 16D0627-16Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1254 [1]	0.12	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 1:39	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	86.1		30-150					4/20/16 1:39	
Decachlorobiphenyl [2]	97.8		30-150					4/20/16 1:39	
Tetrachloro-m-xylene [1]	81.5		30-150					4/20/16 1:39	
Tetrachloro-m-xylene [2]	86.7		30-150					4/20/16 1:39	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-141-(12-15")

Sampled: 4/13/2016 13:40

**Sample ID:** 16D0627-16Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.7		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-142-(0-3")

Sampled: 4/13/2016 13:45

**Sample ID:** 16D0627-17Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/20/16 1:57	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	72.3	30-150					4/20/16 1:57		
Decachlorobiphenyl [2]	80.6	30-150					4/20/16 1:57		
Tetrachloro-m-xylene [1]	73.7	30-150					4/20/16 1:57		
Tetrachloro-m-xylene [2]	79.3	30-150					4/20/16 1:57		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-142-(0-3")

Sampled: 4/13/2016 13:45

**Sample ID:** 16D0627-17Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-143-(0-3")

Sampled: 4/13/2016 13:50

**Sample ID:** 16D0627-18Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/20/16 2:16	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1254 [2]	0.26	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:16	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	78.2		30-150					4/20/16 2:16	
Decachlorobiphenyl [2]	86.1		30-150					4/20/16 2:16	
Tetrachloro-m-xylene [1]	75.4		30-150					4/20/16 2:16	
Tetrachloro-m-xylene [2]	77.3		30-150					4/20/16 2:16	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-143-(0-3")

Sampled: 4/13/2016 13:50

**Sample ID:** 16D0627-18Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.1		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-144-(12-15")

Sampled: 4/13/2016 13:55

**Sample ID:** 16D0627-19Sample Matrix: Soil**Polychlorinated 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	4/18/16	4/20/16 2:34	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:34	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.3	30-150							4/20/16 2:34
Decachlorobiphenyl [2]	110	30-150							4/20/16 2:34
Tetrachloro-m-xylene [1]	87.7	30-150							4/20/16 2:34
Tetrachloro-m-xylene [2]	93.1	30-150							4/20/16 2:34




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-144-(12-15")

Sampled: 4/13/2016 13:55

**Sample ID:** 16D0627-19Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	83.7		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-DUP1-(0-3")

Sampled: 4/13/2016 11:40

**Sample ID:** 16D0627-20**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	4/18/16	4/20/16 2:52	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1254 [1]	0.85	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1260 [2]	0.33	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/18/16	4/20/16 2:52	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	67.0		30-150					4/20/16 2:52	
Decachlorobiphenyl [2]	76.3		30-150					4/20/16 2:52	
Tetrachloro-m-xylene [1]	64.9		30-150					4/20/16 2:52	
Tetrachloro-m-xylene [2]	65.0		30-150					4/20/16 2:52	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-DUP1-(0-3")

Sampled: 4/13/2016 11:40

**Sample ID:** 16D0627-20Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-DUP2-(0-3")

Sampled: 4/13/2016 13:30

**Sample ID:** 16D0627-21Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1221 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1232 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1242 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1248 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1254 [2]	0.80	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1260 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1262 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Aroclor-1268 [1]	ND	0.18	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:15	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	67.1	30-150					4/19/16 13:15		
Decachlorobiphenyl [2]	72.5	30-150					4/19/16 13:15		
Tetrachloro-m-xylene [1]	70.0	30-150					4/19/16 13:15		
Tetrachloro-m-xylene [2]	72.6	30-150					4/19/16 13:15		




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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-DUP2-(0-3")

Sampled: 4/13/2016 13:30

**Sample ID:** 16D0627-21Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	54.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:59	MRL



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-EB-01

Sampled: 4/13/2016 15:00

**Sample ID:** 16D0627-22

Sample Matrix: Equipment Blank Water

**Polychlorinated Biphenyls By GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:00	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	57.8	30-150							4/19/16 19:00
Decachlorobiphenyl [2]	66.8	30-150							4/19/16 19:00
Tetrachloro-m-xylene [1]	62.0	30-150							4/19/16 19:00
Tetrachloro-m-xylene [2]	73.4	30-150							4/19/16 19:00



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0627

Date Received: 4/14/2016

**Field Sample #:** LS-VS-EB-02

Sampled: 4/13/2016 15:10

**Sample ID:** 16D0627-23

Sample Matrix: Equipment Blank Water

**Polychlorinated Biphenyls By GC/ECD**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1221 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1232 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1242 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1248 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1254 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1260 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1262 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Aroclor-1268 [1]	ND	0.20	µg/L	1		SW-846 8082A	4/16/16	4/19/16 19:12	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	56.2	30-150							4/19/16 19:12
Decachlorobiphenyl [2]	64.4	30-150							4/19/16 19:12
Tetrachloro-m-xylene [1]	66.6	30-150							4/19/16 19:12
Tetrachloro-m-xylene [2]	79.5	30-150							4/19/16 19:12



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

### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
16D0627-01 [LS-VS-126-(0-3")]	B146980	04/18/16
16D0627-02 [LS-VS-127-(0-3")]	B146980	04/18/16
16D0627-03 [LS-VS-128-(12-15")]	B146980	04/18/16
16D0627-04 [LS-VS-129-(0-3")]	B146980	04/18/16
16D0627-05 [LS-VS-130-(0-3")]	B146980	04/18/16
16D0627-06 [LS-VS-131-(0-3")]	B146980	04/18/16
16D0627-07 [LS-VS-132-(0-3")]	B146980	04/18/16
16D0627-08 [LS-VS-133-(0-3")]	B146980	04/18/16
16D0627-09 [LS-VS-134-(0-3")]	B146980	04/18/16
16D0627-10 [LS-VS-135-(0-3")]	B146980	04/18/16
16D0627-11 [LS-VS-136-(0-3")]	B146980	04/18/16
16D0627-12 [LS-VS-137-(12-15")]	B146980	04/18/16
16D0627-13 [LS-VS-138-(0-3")]	B146980	04/18/16
16D0627-14 [LS-VS-139-(0-3")]	B146980	04/18/16
16D0627-15 [LS-VS-140-(0-3")]	B146980	04/18/16
16D0627-16 [LS-VS-141-(12-15")]	B146980	04/18/16
16D0627-17 [LS-VS-142-(0-3")]	B146980	04/18/16
16D0627-18 [LS-VS-143-(0-3")]	B146980	04/18/16
16D0627-19 [LS-VS-144-(12-15")]	B146980	04/18/16
16D0627-20 [LS-VS-DUP1-(0-3")]	B146980	04/18/16
16D0627-21 [LS-VS-DUP2-(0-3")]	B146980	04/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16D0627-21 [LS-VS-DUP2-(0-3")]	B146787	10.1	10.0	04/15/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16D0627-01 [LS-VS-126-(0-3")]	B146926	10.4	10.0	04/18/16
16D0627-02 [LS-VS-127-(0-3")]	B146926	10.3	10.0	04/18/16
16D0627-03 [LS-VS-128-(12-15")]	B146926	10.1	10.0	04/18/16
16D0627-04 [LS-VS-129-(0-3")]	B146926	10.2	10.0	04/18/16
16D0627-05 [LS-VS-130-(0-3")]	B146926	10.2	10.0	04/18/16
16D0627-06 [LS-VS-131-(0-3")]	B146926	10.4	10.0	04/18/16
16D0627-07 [LS-VS-132-(0-3")]	B146926	10.3	10.0	04/18/16
16D0627-08 [LS-VS-133-(0-3")]	B146926	10.2	10.0	04/18/16
16D0627-09 [LS-VS-134-(0-3")]	B146926	10.5	10.0	04/18/16
16D0627-10 [LS-VS-135-(0-3")]	B146926	10.2	10.0	04/18/16
16D0627-11 [LS-VS-136-(0-3")]	B146926	10.1	10.0	04/18/16
16D0627-12 [LS-VS-137-(12-15")]	B146926	10.2	10.0	04/18/16
16D0627-13 [LS-VS-138-(0-3")]	B146926	10.4	10.0	04/18/16
16D0627-14 [LS-VS-139-(0-3")]	B146926	10.0	10.0	04/18/16
16D0627-15 [LS-VS-140-(0-3")]	B146926	10.1	10.0	04/18/16
16D0627-16 [LS-VS-141-(12-15")]	B146926	10.2	10.0	04/18/16
16D0627-17 [LS-VS-142-(0-3")]	B146926	10.3	10.0	04/18/16
16D0627-18 [LS-VS-143-(0-3")]	B146926	10.5	10.0	04/18/16
16D0627-19 [LS-VS-144-(12-15")]	B146926	10.3	10.0	04/18/16
16D0627-20 [LS-VS-DUP1-(0-3")]	B146926	10.4	10.0	04/18/16



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

#### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Initial [mL]	Final [mL]	Date
16D0627-22 [LS-VS-EB-01]	B146878	900	9.00	04/16/16
16D0627-23 [LS-VS-EB-02]	B146878	900	9.00	04/16/16



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

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B146878 - SW-846 3510C**

<b>Blank (B146878-BLK1)</b>					Prepared: 04/16/16 Analyzed: 04/19/16					
Aroclor-1016	ND	0.040	µg/L							
Aroclor-1016 [2C]	ND	0.040	µg/L							
Aroclor-1221	ND	0.040	µg/L							
Aroclor-1221 [2C]	ND	0.040	µg/L							
Aroclor-1232	ND	0.040	µg/L							
Aroclor-1232 [2C]	ND	0.040	µg/L							
Aroclor-1242	ND	0.040	µg/L							
Aroclor-1242 [2C]	ND	0.040	µg/L							
Aroclor-1248	ND	0.040	µg/L							
Aroclor-1248 [2C]	ND	0.040	µg/L							
Aroclor-1254	ND	0.040	µg/L							
Aroclor-1254 [2C]	ND	0.040	µg/L							
Aroclor-1260	ND	0.040	µg/L							
Aroclor-1260 [2C]	ND	0.040	µg/L							
Aroclor-1262	ND	0.040	µg/L							
Aroclor-1262 [2C]	ND	0.040	µg/L							
Aroclor-1268	ND	0.040	µg/L							
Aroclor-1268 [2C]	ND	0.040	µg/L							
Surrogate: Decachlorobiphenyl	1.02		µg/L	2.00		50.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.853		µg/L	2.00		42.6	30-150			
Surrogate: Tetrachloro-m-xylene	0.838		µg/L	2.00		41.9	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.732		µg/L	2.00		36.6	30-150			

<b>LCS (B146878-BS1)</b>					Prepared: 04/16/16 Analyzed: 04/19/16					
Aroclor-1016	0.45	0.20	µg/L	0.500		90.0	40-140			
Aroclor-1016 [2C]	0.52	0.20	µg/L	0.500		103	40-140			
Aroclor-1260	0.42	0.20	µg/L	0.500		84.9	40-140			
Aroclor-1260 [2C]	0.47	0.20	µg/L	0.500		93.6	40-140			
Surrogate: Decachlorobiphenyl	1.75		µg/L	2.00		87.4	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.99		µg/L	2.00		99.6	30-150			
Surrogate: Tetrachloro-m-xylene	1.53		µg/L	2.00		76.6	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.78		µg/L	2.00		88.9	30-150			

<b>LCS Dup (B146878-BSD1)</b>					Prepared: 04/16/16 Analyzed: 04/19/16					
Aroclor-1016	0.44	0.20	µg/L	0.500		87.1	40-140	3.31	20	
Aroclor-1016 [2C]	0.50	0.20	µg/L	0.500		99.5	40-140	3.75	20	
Aroclor-1260	0.40	0.20	µg/L	0.500		79.7	40-140	6.40	20	
Aroclor-1260 [2C]	0.43	0.20	µg/L	0.500		86.9	40-140	7.43	20	
Surrogate: Decachlorobiphenyl	1.57		µg/L	2.00		78.3	30-150			
Surrogate: Decachlorobiphenyl [2C]	1.79		µg/L	2.00		89.3	30-150			
Surrogate: Tetrachloro-m-xylene	1.44		µg/L	2.00		71.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	1.69		µg/L	2.00		84.4	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	RPD Limit	Notes
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**Batch B146787 - SW-846 3540C**

<b>Blank (B146787-BLK1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	ND	0.018	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1221	ND	0.018	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1232	ND	0.018	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1242	ND	0.018	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1248	ND	0.018	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1254	ND	0.018	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1260	ND	0.018	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1262	ND	0.018	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1268	ND	0.018	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.018	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.184		92.2		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.184		92.3		30-150		
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.184		90.7		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.184		88.4		30-150		

<b>LCS (B146787-BS1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	0.16	0.019	mg/Kg wet	0.193		83.4		40-140		
Aroclor-1016 [2C]	0.16	0.019	mg/Kg wet	0.193		82.0		40-140		
Aroclor-1260	0.17	0.019	mg/Kg wet	0.193		85.7		40-140		
Aroclor-1260 [2C]	0.17	0.019	mg/Kg wet	0.193		89.3		40-140		
Surrogate: Decachlorobiphenyl	0.183		mg/Kg wet	0.193		94.6		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.193		94.7		30-150		
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.193		80.4		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.193		78.2		30-150		

<b>LCS Dup (B146787-BSD1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	0.18	0.020	mg/Kg wet	0.197		88.8		40-140	8.46	30
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.197		89.0		40-140	10.4	30
Aroclor-1260	0.17	0.020	mg/Kg wet	0.197		88.3		40-140	5.31	30
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.197		91.2		40-140	4.36	30
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.197		94.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.197		94.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.197		91.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.197		87.3		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	RPD Limit	Notes
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**Batch B146926 - SW-846 3540C**

<b>Blank (B146926-BLK1)</b>					Prepared: 04/18/16 Analyzed: 04/19/16					
Aroclor-1016	ND	0.019	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1221	ND	0.019	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1232	ND	0.019	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1242	ND	0.019	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1248	ND	0.019	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1254	ND	0.019	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1260	ND	0.019	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1262	ND	0.019	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.019	mg/Kg wet							
Aroclor-1268	ND	0.019	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.019	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.188		mg/Kg wet	0.192		97.7		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.191		mg/Kg wet	0.192		99.2		30-150		
Surrogate: Tetrachloro-m-xylene	0.173		mg/Kg wet	0.192		89.8		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg wet	0.192		85.4		30-150		

<b>LCS (B146926-BS1)</b>					Prepared: 04/18/16 Analyzed: 04/19/16					
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		83.5		40-140		
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		84.0		40-140		
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.4		40-140		
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.200		88.0		40-140		
Surrogate: Decachlorobiphenyl	0.176		mg/Kg wet	0.200		88.0		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.180		mg/Kg wet	0.200		89.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.174		mg/Kg wet	0.200		87.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.170		mg/Kg wet	0.200		84.9		30-150		

<b>LCS Dup (B146926-BSD1)</b>					Prepared: 04/18/16 Analyzed: 04/19/16					
Aroclor-1016	0.16	0.020	mg/Kg wet	0.199		77.9		40-140	7.37	30
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.199		79.0		40-140	6.63	30
Aroclor-1260	0.16	0.020	mg/Kg wet	0.199		78.5		40-140	7.81	30
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.199		82.0		40-140	7.65	30
Surrogate: Decachlorobiphenyl	0.160		mg/Kg wet	0.199		80.3		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.165		mg/Kg wet	0.199		82.8		30-150		
Surrogate: Tetrachloro-m-xylene	0.162		mg/Kg wet	0.199		81.3		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.158		mg/Kg wet	0.199		79.6		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
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Batch B146926 - SW-846 3540C

<b>Matrix Spike (B146926-MS1)</b>		<b>Source: 16D0627-01</b>		Prepared: 04/18/16 Analyzed: 04/20/16						
Aroclor-1016	0.21	0.13	mg/Kg dry	0.269	ND	79.6	40-140			
Aroclor-1016 [2C]	0.26	0.13	mg/Kg dry	0.269	ND	95.0	40-140			
Aroclor-1260	1.2	0.13	mg/Kg dry	0.269	0.99	93.9	40-140			
Aroclor-1260 [2C]	1.2	0.13	mg/Kg dry	0.269	1.0	69.0	40-140			
Surrogate: Decachlorobiphenyl	0.192		mg/Kg dry	0.269		71.5	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.303		mg/Kg dry	0.269		113	30-150			
Surrogate: Tetrachloro-m-xylene	0.177		mg/Kg dry	0.269		65.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.164		mg/Kg dry	0.269		60.8	30-150			
<b>Matrix Spike Dup (B146926-MSD1)</b>		<b>Source: 16D0627-01</b>		Prepared: 04/18/16 Analyzed: 04/20/16						
Aroclor-1016	0.20	0.13	mg/Kg dry	0.269	ND	75.0	40-140		50	
Aroclor-1016 [2C]	0.23	0.13	mg/Kg dry	0.269	ND	84.6	40-140	11.4	50	
Aroclor-1260	1.1	0.13	mg/Kg dry	0.269	0.99	48.5	40-140	10.3	50	
<b>Aroclor-1260 [2C]</b>	<b>1.1</b>	<b>0.13</b>	<b>mg/Kg dry</b>	<b>0.269</b>	<b>1.0</b>	<b>34.5</b>	<b>*</b>	<b>40-140</b>	<b>8.13</b>	<b>50</b>
Surrogate: Decachlorobiphenyl	0.166		mg/Kg dry	0.269		61.8	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.202		mg/Kg dry	0.269		75.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.169		mg/Kg dry	0.269		62.8	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg dry	0.269		60.1	30-150			



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#### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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##### Batch B146980 - % Solids

Duplicate (B146980-DUP4)	<b>Source: 16D0627-01</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	67.2		% Wt		73.2		8.55	20
Duplicate (B146980-DUP5)	<b>Source: 16D0627-02</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	76.8		% Wt		77.9		1.42	20



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LS-VS-126-(0-3")

Lab Sample ID: 16D0627-01

Date(s) Analyzed: 04/20/2016 04/20/2016

Instrument ID (1):

## Instrument ID (2):

## GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	1.9	
	2	0.00	-0.03	0.03	2.1	12.1
Aroclor-1260	1	0.00	-0.03	0.03	0.99	
	2	0.00	-0.03	0.03	1.0	0.9



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-127-(0-3")**

Lab Sample ID: 16D0627-02 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.22	
	2	0.00	-0.03	0.03	0.23	3.5
Aroclor-1260	1	0.00	-0.03	0.03	0.59	
	2	0.00	-0.03	0.03	0.60	1.9



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-128-(12-15")**

Lab Sample ID: 16D0627-03 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.19	10.5



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-130-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-05

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.45	
	2	0.00	-0.03	0.03	0.50	11.4



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-131-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-06

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.23	
	2	0.00	-0.03	0.03	0.30	26.8



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-132-(0-3")**

Lab Sample ID: 16D0627-07 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.59	
	2	0.00	-0.03	0.03	0.61	2.5
Aroclor-1260	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.14	5.1



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-133-(0-3")**

Lab Sample ID: 16D0627-08 Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.73	
	2	0.00	-0.03	0.03	0.72	0.7
Aroclor-1260	1	0.00	-0.03	0.03	1.3	
	2	0.00	-0.03	0.03	1.2	4.1



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-134-(0-3")**

Lab Sample ID: 16D0627-09 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.60	
	2	0.00	-0.03	0.03	0.53	12.2
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.16	7.8



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

**LS-VS-135-(0-3")**

*SW-846 8082A*

Lab Sample ID: 16D0627-10 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	1.0	
	2	0.00	-0.03	0.03	1.1	6.6



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-136-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-11 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	2.0	
	2	0.00	-0.03	0.03	2.1	5.4



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-138-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-13

Date(s) Analyzed: 04/20/2016 04/20/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	2.3	
	2	0.00	-0.03	0.03	2.5	10.1



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VS-139-(0-3")**

Lab Sample ID: 16D0627-14 Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.81	
	2	0.00	-0.03	0.03	0.87	6.9



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

**LS-VS-140-(0-3")**

*SW-846 8082A*

Lab Sample ID: 16D0627-15

Date(s) Analyzed: 04/20/2016 04/20/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.90	
	2	0.00	-0.03	0.03	0.95	5.9



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-141-(12-15")

*SW-846 8082A*

Lab Sample ID: 16D0627-16 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.12	
	2	0.00	-0.03	0.03	0.12	4.1



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-143-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-18

Date(s) Analyzed: 04/20/2016 04/20/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.21	
	2	0.00	-0.03	0.03	0.26	18.9



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VS-DUP1-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0627-20 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.85	
	2	0.00	-0.03	0.03	0.77	10.5
Aroclor-1260	1	0.00	-0.03	0.03	0.27	
	2	0.00	-0.03	0.03	0.33	18.5



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

**LS-VS-DUP2-(0-3")**

Lab Sample ID: 16D0627-21

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.75	
	2	0.00	-0.03	0.03	0.80	6.5



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B146787-BS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.16	1
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.17	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B146787-BSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.18	3
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B146878-BS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.45	
	2	0.00	0.00	0.00	0.52	14
Aroclor-1260	1	0.00	0.00	0.00	0.42	
	2	0.00	0.00	0.00	0.47	10



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B146878-BSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	0.00	0.00	0.44	
	2	0.00	0.00	0.00	0.50	14
Aroclor-1260	1	0.00	0.00	0.00	0.40	
	2	0.00	0.00	0.00	0.43	8



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B146926-BS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.17	2
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	6



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B146926-BSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.16	3
Aroclor-1260	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.16	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

## Matrix Spike

Lab Sample ID: B146926-MS1 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.21	
	2	0.00	-0.03	0.03	0.26	19
Aroclor-1260	1	0.00	-0.03	0.03	1.2	
	2	0.00	-0.03	0.03	1.2	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

## Matrix Spike Up

Lab Sample ID: B146926-MSD1 Date(s) Analyzed: 04/20/2016 04/20/2016

Date(s) Analyzed: 04/20/2016 04/20/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.20	
	2	0.00	-0.03	0.03	0.23	13
Aroclor-1260	1	0.00	-0.03	0.03	1.1	
	2	0.00	-0.03	0.03	1.1	2



---

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**FLAG/QUALIFIER SUMMARY**

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

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

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

MS-24      Either matrix spike or matrix spike duplicate is outside of control limits, but the other is within limits. Analysis is in control based on laboratory fortified blank recovery.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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 8082A in Water</i></b>	
Aroclor-1016	CT,NH,NY,NC,ME,VA
Aroclor-1016 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1221	CT,NH,NY,NC,ME,VA
Aroclor-1221 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1232	CT,NH,NY,NC,ME,VA
Aroclor-1232 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1242	CT,NH,NY,NC,ME,VA
Aroclor-1242 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1248	CT,NH,NY,NC,ME,VA
Aroclor-1248 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1254	CT,NH,NY,NC,ME,VA
Aroclor-1254 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1260	CT,NH,NY,NC,ME,VA
Aroclor-1260 [2C]	CT,NH,NY,NC,ME,VA
Aroclor-1262	NH,NY,NC,ME,VA
Aroclor-1262 [2C]	NH,NY,NC,ME,VA
Aroclor-1268	NH,NY,NC,ME,VA
Aroclor-1268 [2C]	NH,NY,NC,ME,VA



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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016





# CHAIN OF CUSTODY RECORD

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

Email: info@contestlabs.com  
www.contestlabs.com

IL DO 627

Rev 04.05.12

Page \_\_\_\_\_ of 5

39 Spruce Street  
East Longmeadow, MA 01028

Company Name: Woodard & Curran

Address: 520 Highland Ave

Cheshire CT 06410

Attention: George Franklin

Fairfield, CT

Project Location:

Sampled By: Greg Raynolds

Project Proposal Provided? (for billing purposes)

Yes \_\_\_\_\_

No \_\_\_\_\_

Telephone: 203-271-0379

Project #

Client PO#

FAX  EMAIL  WEBSITE

Fax #

Email: gfranklin@wco.com

Format:

PDF  EXCEL  GIS

OTHER

ANALYSIS REQUESTED

PCB 8082 w/ soxhlet extraction (3540c)

PCB 8082

</



# CHAIN OF CUSTODY RECORD

(60)Do27

ANALYTICAL LABORATORY  
Company Name: Woodard & Curran  
Address: 1520 Highland Ave  
Cheshire CT 06410

Email: info@contestlabs.com

Rev 04/05/12

39 Spruce Street  
East Longmeadow, MA 01028

Attention: George Franklin  
Project Location: Fairfield, CT  
Sampled By: Greg Royalas  
Project Proposal Provided? (for billing purposes)  
 Yes \_\_\_\_\_  
 proposal date \_\_\_\_\_

Telephone: 203 211 0379  
Project #: 228875  
Client PO#  
FAX #  
Fax #  
Email: gfranklin;

DATA DELIVERY (check all that apply)  
 FAX  
 EMAIL  
 WEBSITE

Format:

PDF  
 EXCEL  
 GIS  
 OTHER

Collection:

Enhanced Data Package

Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	Composite	Grab	Matrix	Container
LS-US - Dup2-(6-3)	4-13-16	1330	X	S	S	
LS-US-EB-01	4-13-16	1500	X	S	S	
LS-US-EB-02	4-13-16	1510	X	S	S	

Preservation:

I = Iced

H = HCl

M = Methanol

N = Nitric Acid

S = Sulfuric Acid

B = Sodium bisulfite

X = Na hydroxide

T = Na thiosulfate

O = Other

S = Soil/solid

ST = Sludge

O = Other

A = air

DW = drinking water

GW = groundwater

WW = wastewater

PWSID #

NELAC & AIHA-LAP, LLC

Accredited

WBE/DBE Certified

PLEASE BE CAREFUL NOT TO CONFINE

PLEASE USE THE FOLLOWING CODES TO LET CON-TEST KNOW IF A SPECIFIC SAMPLE

May Be High In Concentration In Matrix/Conc. Code Box:

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

Turnaround:

7-Day

10-Day

Other

RUSH!

24-Hr

48-Hr

72-Hr

4-Day

Require lab approval

Other

Comments:

PCB via USEPA 8082 w/ Soxhlet extraction (3540C)

Please use the following codes to let Con-Test know if a specific sample

may be high in concentration in Matrix/Conc. Code Box:

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

Turnaround:

7-Day

10-Day

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10-Day

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24-Hr

48-Hr

72-Hr

4-Day

Require lab approval

Other

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10-Day

Other

RUSH!

24-Hr

48-Hr

72-Hr

4-Day

Require lab approval

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East Longmeadow, MA. 01028  
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F: 413-525-6405  
www.contestlabs.com



Page 1 of 2

## Sample Receipt Checklist

**CLIENT NAME:** Woodard & Curran      **RECEIVED BY:** PB      **DATE:** 4/14/2016

**1) Was the chain(s) of custody relinquished and signed?** Yes x No \_\_\_\_\_ **No COC Incl.**

**2) Does the chain agree with the samples?** Yes x No \_\_\_\_\_

If not, explain:

**3) Are all the samples in good condition?** Yes x No \_\_\_\_\_

If not, explain:

**4) How were the samples received:**

On Ice x Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ In Cooler(s) x

**Were the samples received in Temperature Compliance of (2-6°C)?** Yes x No \_\_\_\_\_ N/A \_\_\_\_\_

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun \_\_\_\_\_ 5.1

**5) Are there Dissolved samples for the lab to filter?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

**6) Are there any RUSH or SHORT HOLDING TIME samples?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Login

Permission to subcontract samples? Yes x No \_\_\_\_\_

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

**7) Location where samples are stored:**

**8) Do all samples have the proper Acid pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**9) Do all samples have the proper Base pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**10) Was the PC notified of any discrepancies with the CoC vs the samples:** Yes \_\_\_\_\_ N/A x

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber	4	16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	21 Ambers
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
Dpc# 277: # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013: # Thiosulfate _____	Unpreserved	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: PB

Date/Time: 4/14/16



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

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

**Client:** Woodard & Curran - CT

**Project Location:** Fairfield, CT

**Project Number:** 16D0627

**Laboratory Sample ID(s):**

16D0627-01 thru 16D0627-23

**Sample Date(s):**

04/13/2016

*List RCP Methods Used:*

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 <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 <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 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 checked="" type="checkbox"/> Yes <input 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: 04/21/16

Name of Laboratory: Con-Test Analytical Laboratory

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



---

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

April 20, 2016

George Franklin  
Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410

Project Location: Fairfield, CT  
Client Job Number:  
Project Number: 228875  
Laboratory Work Order Number: 16D0629

Enclosed are results of analyses for samples received by the laboratory on April 14, 2016. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." on the first line and "Kelley" on the second line.

Meghan E. Kelley  
Project Manager

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Woodard & Curran - CT  
1520 Highland Avenue  
Cheshire, CT 06410  
ATTN: George Franklin

REPORT DATE: 4/20/2016

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 16D0629

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-CS-100-(0-3")	16D0629-01	Soil		SM 2540G SW-846 8082A	
LS-CS-101-(0-3")	16D0629-02	Soil		SM 2540G SW-846 8082A	
LS-CS-107-(0-3")	16D0629-03	Soil		SM 2540G SW-846 8082A	
LS-CS-108-(0-3")	16D0629-04	Soil		SM 2540G SW-846 8082A	
LS-CS-117-(0-3")	16D0629-05	Soil		SM 2540G SW-846 8082A	
LS-CS-118-(0-3")	16D0629-06	Soil		SM 2540G SW-846 8082A	
LS-CS-145-(0-3")	16D0629-07	Soil		SM 2540G SW-846 8082A	
LS-CS-146-(0-3")	16D0629-08	Soil		SM 2540G SW-846 8082A	
LS-CS-DUP3-(0-3")	16D0629-09	Soil		SM 2540G SW-846 8082A	



---

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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

---

**Qualifications:****P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

**Analyte & Sample(s) Qualified:****Aroclor-1254 [2C]**

16D0629-08[LS-CS-146-(0-3")]

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 "Tod E. Kopyscinski".

Tod E. Kopyscinski  
Laboratory Director



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-100-(0-3")

Sampled: 4/13/2016 09:40

**Sample ID:** 16D0629-01Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1254 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:28	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	63.4	30-150							4/19/16 13:28
Decachlorobiphenyl [2]	67.4	30-150							4/19/16 13:28
Tetrachloro-m-xylene [1]	65.4	30-150							4/19/16 13:28
Tetrachloro-m-xylene [2]	70.5	30-150							4/19/16 13:28




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

Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-100-(0-3")

Sampled: 4/13/2016 09:40

**Sample ID:** 16D0629-01Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-101-(0-3")

Sampled: 4/13/2016 09:45

**Sample ID:** 16D0629-02Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 13:42	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:42	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	67.0	30-150							4/19/16 13:42
Decachlorobiphenyl [2]	72.2	30-150							4/19/16 13:42
Tetrachloro-m-xylene [1]	71.2	30-150							4/19/16 13:42
Tetrachloro-m-xylene [2]	76.2	30-150							4/19/16 13:42




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-101-(0-3")

Sampled: 4/13/2016 09:45

**Sample ID:** 16D0629-02Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-107-(0-3")

Sampled: 4/13/2016 10:10

**Sample ID:** 16D0629-03Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1221 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1232 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1242 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1248 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1254 [2]	0.13	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1260 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1262 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Aroclor-1268 [1]	ND	0.11	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 13:55	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.4	30-150							4/19/16 13:55
Decachlorobiphenyl [2]	82.1	30-150							4/19/16 13:55
Tetrachloro-m-xylene [1]	78.4	30-150							4/19/16 13:55
Tetrachloro-m-xylene [2]	84.4	30-150							4/19/16 13:55




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-107-(0-3")

Sampled: 4/13/2016 10:10

**Sample ID:** 16D0629-03Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.8		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-108-(0-3")

Sampled: 4/13/2016 10:20

**Sample ID:** 16D0629-04Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 14:08	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1254 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 14:08	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	70.9	30-150							4/19/16 14:08
Decachlorobiphenyl [2]	78.6	30-150							4/19/16 14:08
Tetrachloro-m-xylene [1]	74.6	30-150							4/19/16 14:08
Tetrachloro-m-xylene [2]	80.7	30-150							4/19/16 14:08




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-108-(0-3")

Sampled: 4/13/2016 10:20

**Sample ID:** 16D0629-04Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	84.9		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-117-(0-3")

Sampled: 4/13/2016 11:20

**Sample ID:** 16D0629-05Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 15:00	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1254 [2]	0.77	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1260 [2]	0.26	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:00	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	72.4		30-150					4/19/16 15:00	
Decachlorobiphenyl [2]	80.2		30-150					4/19/16 15:00	
Tetrachloro-m-xylene [1]	73.2		30-150					4/19/16 15:00	
Tetrachloro-m-xylene [2]	74.9		30-150					4/19/16 15:00	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-117-(0-3")

Sampled: 4/13/2016 11:20

**Sample ID:** 16D0629-05Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	73.6		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-118-(0-3")

Sampled: 4/13/2016 11:25

**Sample ID:** 16D0629-06Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 15:13	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1254 [1]	0.78	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1260 [2]	0.24	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:13	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	75.6		30-150					4/19/16 15:13	
Decachlorobiphenyl [2]	76.3		30-150					4/19/16 15:13	
Tetrachloro-m-xylene [1]	72.2		30-150					4/19/16 15:13	
Tetrachloro-m-xylene [2]	68.2		30-150					4/19/16 15:13	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-118-(0-3")

Sampled: 4/13/2016 11:25

**Sample ID:** 16D0629-06Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	78.0		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-145-(0-3")

Sampled: 4/13/2016 14:00

**Sample ID:** 16D0629-07Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 15:26	KAL
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1254 [2]	0.16	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1260 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:26	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	83.7	30-150							4/19/16 15:26
Decachlorobiphenyl [2]	81.4	30-150							4/19/16 15:26
Tetrachloro-m-xylene [1]	79.8	30-150							4/19/16 15:26
Tetrachloro-m-xylene [2]	84.7	30-150							4/19/16 15:26




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-145-(0-3")

Sampled: 4/13/2016 14:00

**Sample ID:** 16D0629-07Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	75.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-146-(0-3")

Sampled: 4/13/2016 14:05

**Sample ID:** 16D0629-08Sample Matrix: Soil**Polychlorinated 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	4/15/16	4/19/16 15:39	KAL
Aroclor-1221 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1232 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1242 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1248 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1254 [2]	0.19	0.16	mg/Kg dry	5	P-01	SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1260 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1262 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Aroclor-1268 [1]	ND	0.16	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:39	KAL
Surrogates	% Recovery	Recovery Limits		Flag/Qual					
Decachlorobiphenyl [1]	69.1	30-150					4/19/16 15:39		
Decachlorobiphenyl [2]	77.0	30-150					4/19/16 15:39		
Tetrachloro-m-xylene [1]	72.1	30-150					4/19/16 15:39		
Tetrachloro-m-xylene [2]	75.0	30-150					4/19/16 15:39		




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-146-(0-3")

Sampled: 4/13/2016 14:05

**Sample ID:** 16D0629-08Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	58.2		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-DUP3-(0-3")

Sampled: 4/13/2016 14:00

**Sample ID:** 16D0629-09

Sample Matrix: Soil

**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1221 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1232 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1242 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1248 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1254 [2]	0.18	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1260 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1262 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Aroclor-1268 [1]	ND	0.13	mg/Kg dry	5		SW-846 8082A	4/15/16	4/19/16 15:52	KAL
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	76.5	30-150							4/19/16 15:52
Decachlorobiphenyl [2]	84.9	30-150							4/19/16 15:52
Tetrachloro-m-xylene [1]	74.7	30-150							4/19/16 15:52
Tetrachloro-m-xylene [2]	72.9	30-150							4/19/16 15:52




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Project Location: Fairfield, CT

Sample Description:

Work Order: 16D0629

Date Received: 4/14/2016

**Field Sample #:** LS-CS-DUP3-(0-3")

Sampled: 4/13/2016 14:00

**Sample ID:** 16D0629-09Sample Matrix: Soil

---

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.5		% Wt	1		SM 2540G	4/18/16	4/19/16 10:52	MRL



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
16D0629-01 [LS-CS-100-(0-3")]	B146996	04/18/16
16D0629-02 [LS-CS-101-(0-3")]	B146996	04/18/16
16D0629-03 [LS-CS-107-(0-3")]	B146996	04/18/16
16D0629-04 [LS-CS-108-(0-3")]	B146996	04/18/16
16D0629-05 [LS-CS-117-(0-3")]	B146996	04/18/16
16D0629-06 [LS-CS-118-(0-3")]	B146996	04/18/16
16D0629-07 [LS-CS-145-(0-3")]	B146996	04/18/16
16D0629-08 [LS-CS-146-(0-3")]	B146996	04/18/16
16D0629-09 [LS-CS-DUP3-(0-3")]	B146996	04/18/16

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
16D0629-01 [LS-CS-100-(0-3")]	B146787	10.2	10.0	04/15/16
16D0629-02 [LS-CS-101-(0-3")]	B146787	10.1	10.0	04/15/16
16D0629-03 [LS-CS-107-(0-3")]	B146787	10.5	10.0	04/15/16
16D0629-04 [LS-CS-108-(0-3")]	B146787	10.1	10.0	04/15/16
16D0629-05 [LS-CS-117-(0-3")]	B146787	10.2	10.0	04/15/16
16D0629-06 [LS-CS-118-(0-3")]	B146787	10.4	10.0	04/15/16
16D0629-07 [LS-CS-145-(0-3")]	B146787	10.7	10.0	04/15/16
16D0629-08 [LS-CS-146-(0-3")]	B146787	10.5	10.0	04/15/16
16D0629-09 [LS-CS-DUP3-(0-3")]	B146787	10.5	10.0	04/15/16



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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	RPD Limit	Notes
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**Batch B146787 - SW-846 3540C**

<b>Blank (B146787-BLK1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	ND	0.018	mg/Kg wet							
Aroclor-1016 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1221	ND	0.018	mg/Kg wet							
Aroclor-1221 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1232	ND	0.018	mg/Kg wet							
Aroclor-1232 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1242	ND	0.018	mg/Kg wet							
Aroclor-1242 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1248	ND	0.018	mg/Kg wet							
Aroclor-1248 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1254	ND	0.018	mg/Kg wet							
Aroclor-1254 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1260	ND	0.018	mg/Kg wet							
Aroclor-1260 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1262	ND	0.018	mg/Kg wet							
Aroclor-1262 [2C]	ND	0.018	mg/Kg wet							
Aroclor-1268	ND	0.018	mg/Kg wet							
Aroclor-1268 [2C]	ND	0.018	mg/Kg wet							
Surrogate: Decachlorobiphenyl	0.169		mg/Kg wet	0.184		92.2		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.170		mg/Kg wet	0.184		92.3		30-150		
Surrogate: Tetrachloro-m-xylene	0.167		mg/Kg wet	0.184		90.7		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.163		mg/Kg wet	0.184		88.4		30-150		

<b>LCS (B146787-BS1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	0.16	0.019	mg/Kg wet	0.193		83.4		40-140		
Aroclor-1016 [2C]	0.16	0.019	mg/Kg wet	0.193		82.0		40-140		
Aroclor-1260	0.17	0.019	mg/Kg wet	0.193		85.7		40-140		
Aroclor-1260 [2C]	0.17	0.019	mg/Kg wet	0.193		89.3		40-140		
Surrogate: Decachlorobiphenyl	0.183		mg/Kg wet	0.193		94.6		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.183		mg/Kg wet	0.193		94.7		30-150		
Surrogate: Tetrachloro-m-xylene	0.155		mg/Kg wet	0.193		80.4		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.151		mg/Kg wet	0.193		78.2		30-150		

<b>LCS Dup (B146787-BSD1)</b>					Prepared: 04/15/16 Analyzed: 04/19/16					
Aroclor-1016	0.18	0.020	mg/Kg wet	0.197		88.8		40-140	8.46	30
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.197		89.0		40-140	10.4	30
Aroclor-1260	0.17	0.020	mg/Kg wet	0.197		88.3		40-140	5.31	30
Aroclor-1260 [2C]	0.18	0.020	mg/Kg wet	0.197		91.2		40-140	4.36	30
Surrogate: Decachlorobiphenyl	0.187		mg/Kg wet	0.197		94.8		30-150		
Surrogate: Decachlorobiphenyl [2C]	0.187		mg/Kg wet	0.197		94.9		30-150		
Surrogate: Tetrachloro-m-xylene	0.180		mg/Kg wet	0.197		91.2		30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.197		87.3		30-150		



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#### QUALITY CONTROL

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

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

##### Batch B146996 - % Solids

Duplicate (B146996-DUP1)	<b>Source: 16D0629-01</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	88.0	% Wt		87.9		0.114		20
Duplicate (B146996-DUP2)	<b>Source: 16D0629-02</b>		Prepared: 04/18/16 Analyzed: 04/19/16					
% Solids	87.3	% Wt		84.9		2.79		20



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

LS-CS-117-(0-3")

Lab Sample ID: 16D0629-05 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.73	
	2	0.00	-0.03	0.03	0.77	4.7
Aroclor-1260	1	0.00	-0.03	0.03	0.25	
	2	0.00	-0.03	0.03	0.26	4.3



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-CS-118-(0-3")**

Lab Sample ID: 16D0629-06 Date(s) Analyzed: 04/19/2016 04/19/2016

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.78	
	2	0.00	-0.03	0.03	0.65	17.8
Aroclor-1260	1	0.00	-0.03	0.03	0.21	
	2	0.00	-0.03	0.03	0.24	13.3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-CS-145-(0-3")

*SW-846 8082A*

Lab Sample ID: 16D0629-07

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.13	
	2	0.00	-0.03	0.03	0.16	21.5



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

**LS-CS-DUP3-(0-3")**

*SW-846 8082A*

Lab Sample ID: 16D0629-09

Date(s) Analyzed: 04/19/2016 04/19/2016

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1254	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	7.5



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LCS

Lab Sample ID: B146787-BS1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

## Instrument ID (2):

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.16	
	2	0.00	-0.03	0.03	0.16	1
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.17	3



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LCS Dup

*SW-846 8082A*

Lab Sample ID: B146787-BSD1 Date(s) Analyzed: 04/19/2016 04/19/2016

Date(s) Analyzed: 04/19/2016 04/19/2016

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%D
			FROM	TO		
Aroclor-1016	1	0.00	-0.03	0.03	0.18	
	2	0.00	-0.03	0.03	0.18	3
Aroclor-1260	1	0.00	-0.03	0.03	0.17	
	2	0.00	-0.03	0.03	0.18	3



---

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**FLAG/QUALIFIER SUMMARY**

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

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

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

P-01      Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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

Code	Description	Number	Expires
AIHA	AIHA-LAP, LLC	100033	02/1/2018
MA	Massachusetts DEP	M-MA100	06/30/2016
CT	Connecticut Department of Public Health	PH-0567	09/30/2017
NY	New York State Department of Health	10899 NELAP	04/1/2017
NH-S	New Hampshire Environmental Lab	2516 NELAP	02/5/2017
RI	Rhode Island Department of Health	LAO00112	12/30/2016
NC	North Carolina Div. of Water Quality	652	12/31/2016
NJ	New Jersey DEP	MA007 NELAP	06/30/2016
FL	Florida Department of Health	E871027 NELAP	06/30/2016
VT	Vermont Department of Health Lead Laboratory	LL015036	07/30/2016
ME	State of Maine	2011028	06/9/2017
VA	Commonwealth of Virginia	460217	12/14/2016
NH-P	New Hampshire Environmental Lab	2557 NELAP	09/6/2016



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East Longmeadow, MA. 01028  
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F: 413-525-6405  
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## Sample Receipt Checklist

**CLIENT NAME:** Woodard & Curran      **RECEIVED BY:** PB      **DATE:** 4/14/2016

**1) Was the chain(s) of custody relinquished and signed?** Yes x No \_\_\_\_\_ **No COC Incl.**

**2) Does the chain agree with the samples?** Yes x No \_\_\_\_\_

If not, explain:

**3) Are all the samples in good condition?** Yes x No \_\_\_\_\_

If not, explain:

**4) How were the samples received:**

On Ice x Direct from Sampling \_\_\_\_\_ Ambient \_\_\_\_\_ In Cooler(s) x

**Were the samples received in Temperature Compliance of (2-6°C)?** Yes x No \_\_\_\_\_ N/A \_\_\_\_\_

Temperature °C by Temp blank \_\_\_\_\_ Temperature °C by Temp gun \_\_\_\_\_ 5.1

**5) Are there Dissolved samples for the lab to filter?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

**6) Are there any RUSH or SHORT HOLDING TIME samples?** Yes \_\_\_\_\_ No x

Who was notified \_\_\_\_\_ Date \_\_\_\_\_ Time \_\_\_\_\_

Login

Permission to subcontract samples? Yes x No \_\_\_\_\_

(Walk-in clients only) if not already approved

Client Signature: \_\_\_\_\_

**7) Location where samples are stored:**

**8) Do all samples have the proper Acid pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**9) Do all samples have the proper Base pH:** Yes \_\_\_\_\_ No \_\_\_\_\_ N/A x

**10) Was the PC notified of any discrepancies with the CoC vs the samples:** Yes \_\_\_\_\_ N/A x

### Containers received at Con-Test

	# of containers		# of containers
1 Liter Amber		16 oz amber	
500 mL Amber		8 oz amber/clear jar	
250 mL Amber (8oz amber)		4 oz amber/clear jar	9 Ambers
1 Liter Plastic		2 oz amber/clear jar	
500 mL Plastic		Plastic Bag / Ziploc	
250 mL plastic		SOC Kit	
40 mL Vial - type listed below		Perchlorate Kit	
Colisure / bacteria bottle		Flashpoint bottle	
Dissolved Oxygen bottle		Other glass jar	
Encore		Other	

40 mL vials: # HCl _____	# Methanol _____	Time and Date Frozen:
Dpc# 277: # Bisulfate _____	# DI Water _____	
Rev. 4 August 2013: # Thiosulfate _____	Unpreserved	

Page 2 of 2

Login Sample Receipt Checklist

(Rejection Criteria Listing - Using Sample Acceptance Policy)

Any False statement will be brought to the attention of Client

<u>Question</u>	<u>Answer (True/False)</u>	<u>Comment</u>
	T/F/NA	
1) The cooler's custody seal, if present, is intact.	NA	
2) The cooler or samples do not appear to have been compromised or tampered with.	T	
3) Samples were received on ice.	T	
4) Cooler Temperature is acceptable.	T	
5) Cooler Temperature is recorded.	T	
6) COC is filled out in ink and legible.	T	
7) COC is filled out with all pertinent information.	T	
8) Field Sampler's name present on COC.	T	
9) There are no discrepancies between the sample IDs on the container and the COC.	T	
10) Samples are received within Holding Time.	T	
11) Sample containers have legible labels.	T	
12) Containers are not broken or leaking.	T	
13) Air Cassettes are not broken/open.	NA	
14) Sample collection date/times are provided.	T	
15) Appropriate sample containers are used.	T	
16) Proper collection media used.	T	
17) No headspace sample bottles are completely filled.	NA	
18) There is sufficient volume for all requested analyses, including any requested MS/MSDs.	T	
19) Trip blanks provided if applicable.	NA	
20) VOA sample vials do not have head space or bubble is <6mm (1/4") in diameter.	NA	
21) Samples do not require splitting or compositing.	T	

Who notified of False statements?

Date/Time:

Doc #277 Rev. 4 August 2013

Log-In Technician Initials: PB

Date/Time: 4/14/16



# REASONABLE CONFIDENCE PROTOCOL LABORATORY ANALYSIS QA/QC CERTIFICATION FORM

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

**Client:** Woodard & Curran - CT

**Project Location:** Fairfield, CT

**Project Number:** 16D0629

**Laboratory Sample ID(s):**

16D0629-01 thru 16D0629-09

**Sample Date(s):**

04/13/2016

*List RCP Methods Used:*

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 <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 <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 checked="" type="checkbox"/> Yes <input 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: Laboratory Director

Printed Name: Tod E. Kopyscinski

Date: 04/20/16

Name of Laboratory: Con-Test Analytical Laboratory

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



---

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December 14, 2017

George Franklin  
Woodard & Curran - Andover, MA  
40 Shattuck Road., Suite 110  
Andover, MA 01810

Project Location: Fairfield, CT  
Client Job Number:  
Project Number: 228875.02  
Laboratory Work Order Number: 17L0126

Enclosed are results of analyses for samples received by the laboratory on December 4, 2017. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." sharing a common initial stroke, and "Kelley" following below.

Meghan E. Kelley  
Project Manager

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Woodard & Curran - Andover, MA  
40 Shattuck Road., Suite 110  
Andover, MA 01810  
ATTN: George Franklin

REPORT DATE: 12/14/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875.02

#### ANALYTICAL SUMMARY

WORK ORDER NUMBER: 17L0126

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

PROJECT LOCATION: Fairfield, CT

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
LS-VBS-200	17L0126-01	Soil		SM 2540G SW-846 8082A	
LS-VBS-201	17L0126-02	Soil		SM 2540G SW-846 8082A	
LS-VBS-204	17L0126-03	Soil		SM 2540G SW-846 8082A	
LS-VBS-205	17L0126-04	Soil		SM 2540G SW-846 8082A	
LS-VBS-206	17L0126-05	Soil		SM 2540G SW-846 8082A	
LS-VBS-207	17L0126-06	Soil		SM 2540G SW-846 8082A	
LS-VBS-208	17L0126-07	Soil		SM 2540G SW-846 8082A	
LS-VBS-209	17L0126-08	Soil		SM 2540G SW-846 8082A	
LS-VBS-213	17L0126-09	Soil		SM 2540G SW-846 8082A	
LS-VBS-214	17L0126-10	Soil		SM 2540G SW-846 8082A	
LS-VBS-215	17L0126-11	Soil		SM 2540G SW-846 8082A	
LS-VBS-216	17L0126-12	Soil		SM 2540G SW-846 8082A	



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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

##### **Qualifications:**

###### **P-01**

Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.

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

###### **Aroclor-1260 [2C]**

17L0126-10[LS-VBS-214], 17L0126-11[LS-VBS-215]

###### **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**

17L0126-11[LS-VBS-215]

###### **Decachlorobiphenyl [2C]**

17L0126-11[LS-VBS-215]

###### **Tetrachloro-m-xylene**

17L0126-11[LS-VBS-215]

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

17L0126-11[LS-VBS-215]

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 that reads "Lisa A. Worthington".

Lisa A. Worthington  
Project Manager



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

Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-200

Sampled: 12/2/2017 10:51

**Sample ID:** 17L0126-01Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1221 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1232 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1242 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1248 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1254 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1260 [2]	0.36	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1262 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Aroclor-1268 [1]	ND	0.10	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:09	TG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	103		30-150					12/11/17 21:09	
Decachlorobiphenyl [2]	90.5		30-150					12/11/17 21:09	
Tetrachloro-m-xylene [1]	99.1		30-150					12/11/17 21:09	
Tetrachloro-m-xylene [2]	84.1		30-150					12/11/17 21:09	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-200

Sampled: 12/2/2017 10:51

**Sample ID:** 17L0126-01Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	77.4		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-201

Sampled: 12/2/2017 10:54

**Sample ID:** 17L0126-02**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	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1254 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1260 [2]	0.43	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:27	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	74.6	30-150							12/11/17 21:27
Decachlorobiphenyl [2]	87.4	30-150							12/11/17 21:27
Tetrachloro-m-xylene [1]	67.1	30-150							12/11/17 21:27
Tetrachloro-m-xylene [2]	62.7	30-150							12/11/17 21:27




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-201

Sampled: 12/2/2017 10:54

**Sample ID:** 17L0126-02Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	87.9		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-204

Sampled: 12/2/2017 10:48

**Sample ID:** 17L0126-03Sample Matrix: Soil**Polychlorinated 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	12/6/17	12/11/17 21:45	TG
Aroclor-1221 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1232 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1242 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1248 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1254 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1260 [1]	0.11	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1262 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Aroclor-1268 [1]	ND	0.090	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 21:45	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	109	30-150							12/11/17 21:45
Decachlorobiphenyl [2]	96.7	30-150							12/11/17 21:45
Tetrachloro-m-xylene [1]	105	30-150							12/11/17 21:45
Tetrachloro-m-xylene [2]	89.4	30-150							12/11/17 21:45




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-204

Sampled: 12/2/2017 10:48

**Sample ID:** 17L0126-03Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.3		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-205

Sampled: 12/2/2017 11:35

**Sample ID:** 17L0126-04Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1254 [2]	0.54	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1260 [1]	0.18	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:03	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	90.3	30-150							12/11/17 22:03
Decachlorobiphenyl [2]	90.8	30-150							12/11/17 22:03
Tetrachloro-m-xylene [1]	80.1	30-150							12/11/17 22:03
Tetrachloro-m-xylene [2]	70.9	30-150							12/11/17 22:03




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-205

Sampled: 12/2/2017 11:35

**Sample ID:** 17L0126-04Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.9		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-206

Sampled: 12/2/2017 11:38

**Sample ID:** 17L0126-05Sample Matrix: Soil**Polychlorinated 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	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1221 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1232 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1242 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1248 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1254 [1]	1.5	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1260 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1262 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Aroclor-1268 [1]	ND	0.19	mg/Kg dry	8		SW-846 8082A	12/6/17	12/12/17 18:12	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	92.3		30-150						12/12/17 18:12
Decachlorobiphenyl [2]	89.6		30-150						12/12/17 18:12
Tetrachloro-m-xylene [1]	86.3		30-150						12/12/17 18:12
Tetrachloro-m-xylene [2]	89.2		30-150						12/12/17 18:12




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-206

Sampled: 12/2/2017 11:38

**Sample ID:** 17L0126-05Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.8		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-207

Sampled: 12/2/2017 11:41

**Sample ID:** 17L0126-06Sample Matrix: Soil**Polychlorinated 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	12/6/17	12/11/17 22:39	TG
Aroclor-1221 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1232 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1242 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1248 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1254 [1]	0.73	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1260 [1]	0.18	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1262 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Aroclor-1268 [1]	ND	0.091	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 22:39	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	97.6	30-150							12/11/17 22:39
Decachlorobiphenyl [2]	90.7	30-150							12/11/17 22:39
Tetrachloro-m-xylene [1]	94.1	30-150							12/11/17 22:39
Tetrachloro-m-xylene [2]	81.4	30-150							12/11/17 22:39




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-207

Sampled: 12/2/2017 11:41

**Sample ID:** 17L0126-06Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.8		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-208

Sampled: 12/2/2017 11:55

**Sample ID:** 17L0126-07Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1221 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1232 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1242 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1248 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1254 [1]	2.8	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1260 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1262 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Aroclor-1268 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/6/17	12/12/17 18:30	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	87.8		30-150					12/12/17 18:30	
Decachlorobiphenyl [2]	88.8		30-150					12/12/17 18:30	
Tetrachloro-m-xylene [1]	78.7		30-150					12/12/17 18:30	
Tetrachloro-m-xylene [2]	83.9		30-150					12/12/17 18:30	




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-208

Sampled: 12/2/2017 11:55

**Sample ID:** 17L0126-07Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.6		% Wt	1		SM 2540G	12/7/17	12/7/17 20:32	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-209

Sampled: 12/2/2017 11:47

**Sample ID:** 17L0126-08Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1221 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1232 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1242 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1248 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1254 [1]	0.35	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1260 [1]	0.34	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1262 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Aroclor-1268 [1]	ND	0.093	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:15	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	89.2	30-150							12/11/17 23:15
Decachlorobiphenyl [2]	94.6	30-150							12/11/17 23:15
Tetrachloro-m-xylene [1]	83.9	30-150							12/11/17 23:15
Tetrachloro-m-xylene [2]	72.7	30-150							12/11/17 23:15




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-209

Sampled: 12/2/2017 11:47

**Sample ID:** 17L0126-08Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.2		% Wt	1		SM 2540G	12/7/17	12/7/17 20:33	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-213

Sampled: 12/2/2017 12:12

**Sample ID:** 17L0126-09Sample Matrix: Soil**Polychlorinated 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	12/6/17	12/11/17 23:33	TG
Aroclor-1221 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1232 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1242 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1248 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1254 [1]	0.84	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1260 [2]	0.26	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1262 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Aroclor-1268 [1]	ND	0.096	mg/Kg dry	4		SW-846 8082A	12/6/17	12/11/17 23:33	TG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	86.3	30-150							12/11/17 23:33
Decachlorobiphenyl [2]	89.8	30-150							12/11/17 23:33
Tetrachloro-m-xylene [1]	89.2	30-150							12/11/17 23:33
Tetrachloro-m-xylene [2]	76.9	30-150							12/11/17 23:33




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-213

Sampled: 12/2/2017 12:12

**Sample ID:** 17L0126-09Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	82.2		% Wt	1		SM 2540G	12/7/17	12/7/17 20:33	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-214

Sampled: 12/2/2017 12:15

**Sample ID:** 17L0126-10Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1221 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1232 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1242 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1248 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1254 [1]	0.49	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1260 [2]	0.34	0.097	mg/Kg dry	4	P-01	SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1262 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Aroclor-1268 [1]	ND	0.097	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:00	PJG
Surrogates	% Recovery	Recovery Limits	Flag/Qual						
Decachlorobiphenyl [1]	85.0	30-150							12/12/17 17:00
Decachlorobiphenyl [2]	81.8	30-150							12/12/17 17:00
Tetrachloro-m-xylene [1]	80.7	30-150							12/12/17 17:00
Tetrachloro-m-xylene [2]	82.0	30-150							12/12/17 17:00




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-214

Sampled: 12/2/2017 12:15

**Sample ID:** 17L0126-10Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.7		% Wt	1		SM 2540G	12/7/17	12/7/17 20:33	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-215

Sampled: 12/2/2017 12:20

**Sample ID:** 17L0126-11

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	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1221 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1232 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1242 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1248 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1254 [1]	16	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1260 [2]	4.2	1.8	mg/Kg dry	80	P-01	SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1262 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Aroclor-1268 [1]	ND	1.8	mg/Kg dry	80		SW-846 8082A	12/6/17	12/12/17 18:48	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	*		30-150		S-01				12/12/17 18:48
Decachlorobiphenyl [2]	*		30-150		S-01				12/12/17 18:48
Tetrachloro-m-xylene [1]	*		30-150		S-01				12/12/17 18:48
Tetrachloro-m-xylene [2]	*		30-150		S-01				12/12/17 18:48




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-215

Sampled: 12/2/2017 12:20

**Sample ID:** 17L0126-11Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	89.2		% Wt	1		SM 2540G	12/7/17	12/7/17 20:33	BLM



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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-216

Sampled: 12/2/2017 12:25

**Sample ID:** 17L0126-12

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	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1221 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1232 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1242 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1248 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1254 [1]	0.70	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1260 [2]	0.96	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1262 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Aroclor-1268 [1]	ND	0.12	mg/Kg dry	4		SW-846 8082A	12/6/17	12/12/17 17:18	PJG
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	89.8		30-150						12/12/17 17:18
Decachlorobiphenyl [2]	86.0		30-150						12/12/17 17:18
Tetrachloro-m-xylene [1]	86.3		30-150						12/12/17 17:18
Tetrachloro-m-xylene [2]	88.5		30-150						12/12/17 17:18




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Project Location: Fairfield, CT

Sample Description:

Work Order: 17L0126

Date Received: 12/4/2017

**Field Sample #:** LS-VBS-216

Sampled: 12/2/2017 12:25

**Sample ID:** 17L0126-12Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	67.6		% Wt	1		SM 2540G	12/7/17	12/7/17 20:33	BLM



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
17L0126-01 [LS-VBS-200]	B192752	12/07/17
17L0126-02 [LS-VBS-201]	B192752	12/07/17
17L0126-03 [LS-VBS-204]	B192752	12/07/17
17L0126-04 [LS-VBS-205]	B192752	12/07/17
17L0126-05 [LS-VBS-206]	B192752	12/07/17
17L0126-06 [LS-VBS-207]	B192752	12/07/17
17L0126-07 [LS-VBS-208]	B192752	12/07/17
17L0126-08 [LS-VBS-209]	B192752	12/07/17
17L0126-09 [LS-VBS-213]	B192752	12/07/17
17L0126-10 [LS-VBS-214]	B192752	12/07/17
17L0126-11 [LS-VBS-215]	B192752	12/07/17
17L0126-12 [LS-VBS-216]	B192752	12/07/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17L0126-01 [LS-VBS-200]	B192673	10.1	10.0	12/06/17
17L0126-02 [LS-VBS-201]	B192673	10.0	10.0	12/06/17
17L0126-03 [LS-VBS-204]	B192673	10.3	10.0	12/06/17
17L0126-04 [LS-VBS-205]	B192673	10.1	10.0	12/06/17
17L0126-05 [LS-VBS-206]	B192673	10.2	10.0	12/06/17
17L0126-06 [LS-VBS-207]	B192673	10.1	10.0	12/06/17
17L0126-07 [LS-VBS-208]	B192673	10.0	10.0	12/06/17
17L0126-08 [LS-VBS-209]	B192673	10.1	10.0	12/06/17
17L0126-09 [LS-VBS-213]	B192673	10.1	10.0	12/06/17
17L0126-10 [LS-VBS-214]	B192673	10.1	10.0	12/06/17
17L0126-11 [LS-VBS-215]	B192673	10.0	10.0	12/06/17
17L0126-12 [LS-VBS-216]	B192673	10.0	10.0	12/06/17



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B192673 - SW-846 3540C**

<b>Blank (B192673-BLK1)</b>					Prepared: 12/06/17 Analyzed: 12/11/17					
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	0.229		mg/Kg wet	0.200		115	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.196		mg/Kg wet	0.200		98.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.202		mg/Kg wet	0.200		101	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.172		mg/Kg wet	0.200		85.9	30-150			

<b>LCS (B192673-BS1)</b>					Prepared: 12/06/17 Analyzed: 12/11/17					
Aroclor-1016	0.16	0.020	mg/Kg wet	0.200		82.2	40-140			
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		83.4	40-140			
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200		84.0	40-140			
Aroclor-1260 [2C]	0.16	0.020	mg/Kg wet	0.200		78.4	40-140			
Surrogate: Decachlorobiphenyl	0.223		mg/Kg wet	0.200		111	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.186		mg/Kg wet	0.200		93.1	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg wet	0.200		98.3	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.162		mg/Kg wet	0.200		80.9	30-150			

<b>LCS Dup (B192673-BSD1)</b>					Prepared: 12/06/17 Analyzed: 12/11/17					
Aroclor-1016	0.17	0.020	mg/Kg wet	0.200		84.5	40-140	2.77	30	
Aroclor-1016 [2C]	0.17	0.020	mg/Kg wet	0.200		87.4	40-140	4.71	30	
Aroclor-1260	0.18	0.020	mg/Kg wet	0.200		89.4	40-140	6.25	30	
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200		83.8	40-140	6.57	30	
Surrogate: Decachlorobiphenyl	0.231		mg/Kg wet	0.200		116	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.194		mg/Kg wet	0.200		97.0	30-150			
Surrogate: Tetrachloro-m-xylene	0.197		mg/Kg wet	0.200		98.5	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.167		mg/Kg wet	0.200		83.5	30-150			



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### QUALITY CONTROL

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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	Limit Notes
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Batch B192673 - SW-846 3540C

<b>Matrix Spike (B192673-MS1)</b>		<b>Source: 17L0126-01</b>		Prepared: 12/06/17 Analyzed: 12/12/17					
Aroclor-1016	0.29	0.10	mg/Kg dry	0.258	ND	110	40-140		
Aroclor-1016 [2C]	0.27	0.10	mg/Kg dry	0.258	ND	106	40-140		
Aroclor-1260	0.57	0.10	mg/Kg dry	0.258	0.35	85.4	40-140		
Aroclor-1260 [2C]	0.55	0.10	mg/Kg dry	0.258	0.36	73.8	40-140		
Surrogate: Decachlorobiphenyl	0.244		mg/Kg dry	0.258		94.4	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.238		mg/Kg dry	0.258		92.0	30-150		
Surrogate: Tetrachloro-m-xylene	0.240		mg/Kg dry	0.258		92.8	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.245		mg/Kg dry	0.258		95.0	30-150		
<b>Matrix Spike Dup (B192673-MSD1)</b>		<b>Source: 17L0126-01</b>		Prepared: 12/06/17 Analyzed: 12/12/17					
Aroclor-1016	0.28	0.10	mg/Kg dry	0.258	ND	108	40-140	2.10	50
Aroclor-1016 [2C]	0.27	0.10	mg/Kg dry	0.258	ND	103	40-140	3.06	50
Aroclor-1260	0.56	0.10	mg/Kg dry	0.258	0.35	82.2	40-140	1.50	50
Aroclor-1260 [2C]	0.54	0.10	mg/Kg dry	0.258	0.36	70.5	40-140	1.57	50
Surrogate: Decachlorobiphenyl	0.244		mg/Kg dry	0.258		94.4	30-150		
Surrogate: Decachlorobiphenyl [2C]	0.232		mg/Kg dry	0.258		90.0	30-150		
Surrogate: Tetrachloro-m-xylene	0.224		mg/Kg dry	0.258		86.7	30-150		
Surrogate: Tetrachloro-m-xylene [2C]	0.232		mg/Kg dry	0.258		89.9	30-150		



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

**LS-VBS-200**

Lab Sample ID: 17L0126-01 Date(s) Analyzed: 12/11/2017 12/11/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.36	2.8



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

*SW-846 8082A*

LS-VBS-201

Lab Sample ID: 17L0126-02

Date(s) Analyzed: 12/11/2017 12/11/2017

Instrument ID (1):

## Instrument ID (2):

## GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.43	20.5



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-204**

Lab Sample ID: 17L0126-03 Date(s) Analyzed: 12/11/2017 12/11/2017

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1260	1	0.000	-0.030	0.030	0.11	
	2	0.000	-0.030	0.030	0.10	9.5



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-205**

Lab Sample ID: 17L0126-04 Date(s) Analyzed: 12/11/2017 12/11/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.46	
	2	0.000	-0.030	0.030	0.54	16.0
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*

LS-VBS-206

Lab Sample ID: 17L0126-05

Date(s) Analyzed: 12/12/2017 12/12/2017

### Instrument ID (1):

## Instrument ID (2):

### GC Column (1):

ID: (mm)

## GC Column (2):

ID: (mm)

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	1.5	
	2	0.000	-0.030	0.030	1.4	6.9



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-207**

Lab Sample ID: 17L0126-06 Date(s) Analyzed: 12/11/2017 12/11/2017

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.73	
	2	0.000	-0.030	0.030	0.66	10.1
Aroclor-1260	1	0.000	-0.030	0.030	0.18	
	2	0.000	-0.030	0.030	0.14	25.0



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-208**

Lab Sample ID: 17L0126-07 Date(s) Analyzed: 12/12/2017 12/12/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	2.8	
	2	0.000	-0.030	0.030	2.7	7.1



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-209**

Lab Sample ID: 17L0126-08 Date(s) Analyzed: 12/11/2017 12/11/2017

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.35	
	2	0.000	-0.030	0.030	0.31	12.1
Aroclor-1260	1	0.000	-0.030	0.030	0.34	
	2	0.000	-0.030	0.030	0.33	3.0



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

LS-VBS-213

*SW-846 8082A*

Lab Sample ID: 17L0126-09 Date(s) Analyzed: 12/11/2017 12/11/2017

Date(s) Analyzed: 12/11/2017 12/11/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.84	
	2	0.000	-0.030	0.030	0.81	4.8
Aroclor-1260	1	0.000	-0.030	0.030	0.25	
	2	0.000	-0.030	0.030	0.26	3.9



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-214**

Lab Sample ID: 17L0126-10 Date(s) Analyzed: 12/12/2017 12/12/2017

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.49	
	2	0.000	-0.030	0.030	0.44	10.8
Aroclor-1260	1	0.000	-0.030	0.030	0.21	
	2	0.000	-0.030	0.030	0.34	47.3



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-215**

Lab Sample ID: 17L0126-11 Date(s) Analyzed: 12/12/2017 12/12/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	16	
	2	0.000	-0.030	0.030	14	13.3
Aroclor-1260	1	0.000	-0.030	0.030	1.9	
	2	0.000	-0.030	0.030	4.2	75.4



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**LS-VBS-216**

Lab Sample ID: 17L0126-12 Date(s) Analyzed: 12/12/2017 12/12/2017

Instrument ID (1): \_\_\_\_\_ Instrument ID (2): \_\_\_\_\_

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.70	
	2	0.000	-0.030	0.030	0.63	10.5
Aroclor-1260	1	0.000	-0.030	0.030	0.82	
	2	0.000	-0.030	0.030	0.96	15.7



---

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**FLAG/QUALIFIER SUMMARY**

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

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

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

- P-01 Result was confirmed using a dissimilar column. Relative percent difference between the two results was >40%. In accordance with the method, the higher result was reported.
- S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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	12/30/2018
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





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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	<u>woodard &amp; curran</u>			Date	<u>12/11/17</u>	Time	<u>1700</u>
Received By	<u>A.R.</u>						
How were the samples received?	In Cooler	<u>T</u>	No Cooler		On Ice	<u>T</u>	No Ice
	Direct from Sampling				Ambient		Melted Ice
Were samples within Temperature? 2-6°C	<u>T</u>	By Gun #	<u>1</u>	Actual Temp -	<u>4.7</u>		
Was Custody Seal Intact?	<u>N/A</u>	Were Samples Tampered with?		Actual Temp -			
Was COC Relinquished ?	<u>T</u>	Does Chain Agree With Samples?	<u>N/A</u>				
Are there broken/leaking/loose caps on any samples?		<u>F</u>					
Is COC in ink/ Legible?	<u>T</u>	Were samples received within holding time?		Sampler Name	<u>T</u>		
Did COC include all pertinent Information?	Client Project	<u>T</u>	Analysis ID's	<u>T</u>	Collection Dates/Times	<u>T</u>	
Are Sample labels filled out and legible?							
Are there Lab to Filters?	<u>N/A</u>	Who was notified?					
Are there Rushes?	<u>N/A</u>	Who was notified?					
Are there Short Holds?	<u>N/A</u>	Who was notified?					
Is there enough Volume?	<u>T</u>	MS/MSD?	<u>N/A</u>	Is splitting samples required?			
Is there Headspace where applicable?	<u>N/A</u>	On COC?	<u>N/A</u>				
Proper Media/Containers Used?	<u>T</u>	Acid		Base			
Were trip blanks received?	<u>N/A</u>						
Do all samples have the proper pH?	<u>N/A</u>						

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:** Woodard & Curran - Andover, MA

**Project Location:** Fairfield, CT

**Project Number:** 17L0126

**Laboratory Sample ID(s):**

17L0126-01 thru 17L0126-12

**Sample Date(s):**

12/02/2017

*List RCP Methods Used:*

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 <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 <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 checked="" type="checkbox"/> Yes <input 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: 12/14/17

Name of Laboratory: Con-Test Analytical Laboratory

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



---

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December 26, 2017

Jeff Hamel  
Woodard & Curran - Andover, MA  
40 Shattuck Road, Suite 110  
Andover, MA 01810

Project Location: Fairfield, CT - Ludlowe H.S.

Client Job Number:

Project Number: 228875

Laboratory Work Order Number: 17L0743

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

Sincerely,

A handwritten signature in black ink that reads "Meghan S. Kelley". The signature is fluid and cursive, with "Meghan" and "S." sharing a common initial stroke, and "Kelley" following in a larger, more distinct script.

Meghan E. Kelley  
Project Manager

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Woodard & Curran - Andover, MA  
40 Shattuck Road., Suite 110  
Andover, MA 01810  
ATTN: Jeff Hamel

REPORT DATE: 12/26/2017

PURCHASE ORDER NUMBER:

PROJECT NUMBER: 228875

#### **ANALYTICAL SUMMARY**

---

WORK ORDER NUMBER: 17L0743

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

PROJECT LOCATION: Fairfield, CT - Ludlowe H.S.

FIELD SAMPLE #	LAB ID:	MATRIX	SAMPLE DESCRIPTION	TEST	SUB LAB
FLHS-VBS-216	17L0743-01	Soil		SM 2540G SW-846 8082A	
FLHS-VBS-217	17L0743-02	Soil		SM 2540G SW-846 8082A	
FLHS-VBS-218	17L0743-03	Soil		SM 2540G SW-846 8082A	
FLHS-VBS-210	17L0743-04	Soil		SM 2540G SW-846 8082A	



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#### CASE NARRATIVE SUMMARY

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

#### SW-846 8082A

##### **Qualifications:**

###### **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**

17L0743-01[FLHS-VBS-216], 17L0743-02[FLHS-VBS-217]

###### **Decachlorobiphenyl [2C]**

17L0743-01[FLHS-VBS-216], 17L0743-02[FLHS-VBS-217]

###### **Tetrachloro-m-xylene**

17L0743-01[FLHS-VBS-216], 17L0743-02[FLHS-VBS-217]

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

17L0743-01[FLHS-VBS-216], 17L0743-02[FLHS-VBS-217]

###### **S-02**

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

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

###### **Decachlorobiphenyl [2C]**

17L0743-04[FLHS-VBS-210]

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

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

Tod E. Kopyscinski  
Laboratory Director



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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-216

Sampled: 12/16/2017 08:30

**Sample ID:** 17L0743-01

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	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1221 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1232 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1242 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1248 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1254 [2]	6.9	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1260 [2]	3.0	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1262 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Aroclor-1268 [1]	ND	2.2	mg/Kg dry	80		SW-846 8082A	12/18/17	12/23/17 12:23	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	*		30-150		S-01				12/23/17 12:23
Decachlorobiphenyl [2]	*		30-150		S-01				12/23/17 12:23
Tetrachloro-m-xylene [1]	*		30-150		S-01				12/23/17 12:23
Tetrachloro-m-xylene [2]	*		30-150		S-01				12/23/17 12:23




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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-216

Sampled: 12/16/2017 08:30

**Sample ID:** 17L0743-01Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	72.0		% Wt	1		SM 2540G	12/19/17	12/20/17 7:34	MRL



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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-217

Sampled: 12/16/2017 08:40

**Sample ID:** 17L0743-02Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1221 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1232 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1242 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1248 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1254 [2]	3.9	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1260 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1262 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Aroclor-1268 [1]	ND	0.92	mg/Kg dry	40		SW-846 8082A	12/18/17	12/23/17 12:41	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	*		30-150		S-01				12/23/17 12:41
Decachlorobiphenyl [2]	*		30-150		S-01				12/23/17 12:41
Tetrachloro-m-xylene [1]	*		30-150		S-01				12/23/17 12:41
Tetrachloro-m-xylene [2]	*		30-150		S-01				12/23/17 12:41




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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-217

Sampled: 12/16/2017 08:40

**Sample ID:** 17L0743-02Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	86.5		% Wt	1		SM 2540G	12/19/17	12/20/17 7:34	MRL



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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-218

Sampled: 12/16/2017 08:50

**Sample ID:** 17L0743-03Sample Matrix: Soil**Polychlorinated Biphenyls with 3540 Soxhlet Extraction**

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
Aroclor-1016 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1221 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1232 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1242 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1248 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1254 [1]	2.2	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1260 [2]	0.97	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1262 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Aroclor-1268 [1]	ND	0.47	mg/Kg dry	20		SW-846 8082A	12/18/17	12/23/17 12:59	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	104		30-150					12/23/17 12:59	
Decachlorobiphenyl [2]	123		30-150					12/23/17 12:59	
Tetrachloro-m-xylene [1]	96.3		30-150					12/23/17 12:59	
Tetrachloro-m-xylene [2]	107		30-150					12/23/17 12:59	




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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-218

Sampled: 12/16/2017 08:50

**Sample ID:** 17L0743-03Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	85.5		% Wt	1		SM 2540G	12/19/17	12/20/17 7:34	MRL



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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-210

Sampled: 12/2/2017 11:40

**Sample ID:** 17L0743-04**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	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1221 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1232 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1242 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1248 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1254 [2]	0.33	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1260 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1262 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Aroclor-1268 [1]	ND	0.099	mg/Kg dry	4		SW-846 8082A	12/18/17	12/23/17 5:59	KAL
Surrogates	% Recovery		Recovery Limits		Flag/Qual				
Decachlorobiphenyl [1]	85.5		30-150					12/23/17 5:59	
<b>Decachlorobiphenyl [2]</b>	<b>156</b>	*	30-150		S-02			12/23/17 5:59	
Tetrachloro-m-xylene [1]	82.9		30-150					12/23/17 5:59	
Tetrachloro-m-xylene [2]	88.8		30-150					12/23/17 5:59	




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Project Location: Fairfield, CT - Ludlowe H.S.

Sample Description:

Work Order: 17L0743

Date Received: 12/18/2017

**Field Sample #:** FLHS-VBS-210

Sampled: 12/2/2017 11:40

**Sample ID:** 17L0743-04Sample Matrix: Soil

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

Analyte	Results	RL	Units	Dilution	Flag/Qual	Method	Date Prepared	Date/Time Analyzed	Analyst
% Solids	81.0		% Wt	1		SM 2540G	12/19/17	12/20/17 7:35	MRL



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### Sample Extraction Data

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

Lab Number [Field ID]	Batch	Date
17L0743-01 [FLHS-VBS-216]	B193585	12/19/17
17L0743-02 [FLHS-VBS-217]	B193585	12/19/17
17L0743-03 [FLHS-VBS-218]	B193585	12/19/17
17L0743-04 [FLHS-VBS-210]	B193585	12/19/17

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

Lab Number [Field ID]	Batch	Initial [g]	Final [mL]	Date
17L0743-01 [FLHS-VBS-216]	B193541	10.0	10.0	12/18/17
17L0743-02 [FLHS-VBS-217]	B193541	10.0	10.0	12/18/17
17L0743-03 [FLHS-VBS-218]	B193541	10.0	10.0	12/18/17
17L0743-04 [FLHS-VBS-210]	B193541	10.0	10.0	12/18/17



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

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD RPD	RPD Limit	Notes
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**Batch B193541 - SW-846 3540C****Blank (B193541-BLK1)**

Prepared: 12/18/17 Analyzed: 12/21/17

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	0.169	mg/Kg wet	0.200	84.4	30-150
Surrogate: Decachlorobiphenyl [2C]	0.163	mg/Kg wet	0.200	81.3	30-150
Surrogate: Tetrachloro-m-xylene	0.183	mg/Kg wet	0.200	91.4	30-150
Surrogate: Tetrachloro-m-xylene [2C]	0.177	mg/Kg wet	0.200	88.5	30-150

**LCS (B193541-BS1)**

Prepared: 12/18/17 Analyzed: 12/21/17

Aroclor-1016	0.18	0.020	mg/Kg wet	0.200	91.3	40-140
Aroclor-1016 [2C]	0.18	0.020	mg/Kg wet	0.200	89.2	40-140
Aroclor-1260	0.17	0.020	mg/Kg wet	0.200	85.4	40-140
Aroclor-1260 [2C]	0.17	0.020	mg/Kg wet	0.200	83.4	40-140
Surrogate: Decachlorobiphenyl	0.173	mg/Kg wet	0.200	86.6	30-150	
Surrogate: Decachlorobiphenyl [2C]	0.167	mg/Kg wet	0.200	83.3	30-150	
Surrogate: Tetrachloro-m-xylene	0.175	mg/Kg wet	0.200	87.3	30-150	
Surrogate: Tetrachloro-m-xylene [2C]	0.168	mg/Kg wet	0.200	84.1	30-150	

**LCS Dup (B193541-BSD1)**

Prepared: 12/18/17 Analyzed: 12/21/17

Aroclor-1016	0.16	0.020	mg/Kg wet	0.200	81.2	40-140	11.8	30
Aroclor-1016 [2C]	0.16	0.020	mg/Kg wet	0.200	81.2	40-140	9.32	30
Aroclor-1260	0.15	0.020	mg/Kg wet	0.200	75.6	40-140	12.1	30
Aroclor-1260 [2C]	0.15	0.020	mg/Kg wet	0.200	74.2	40-140	11.7	30
Surrogate: Decachlorobiphenyl	0.150	mg/Kg wet	0.200	75.0	30-150			
Surrogate: Decachlorobiphenyl [2C]	0.146	mg/Kg wet	0.200	73.2	30-150			
Surrogate: Tetrachloro-m-xylene	0.163	mg/Kg wet	0.200	81.4	30-150			
Surrogate: Tetrachloro-m-xylene [2C]	0.159	mg/Kg wet	0.200	79.6	30-150			



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

**FLHS-VBS-216**

Lab Sample ID: 17L0743-01 Date(s) Analyzed: 12/23/2017 12/23/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	6.8	
	2	0.000	-0.030	0.030	6.9	1.5
Aroclor-1260	1	0.000	-0.030	0.030	2.5	
	2	0.000	-0.030	0.030	3.0	18.2



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**IDENTIFICATION SUMMARY  
FOR SINGLE COMPONENT ANALYTES**

*SW-846 8082A*

**FLHS-VBS-217**

Lab Sample ID: 17L0743-02 Date(s) Analyzed: 12/23/2017 12/23/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	3.6	
	2	0.000	-0.030	0.030	3.9	8.0



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

FLHS-VBS-218

*SW-846 8082A*

Lab Sample ID: 17L0743-03 Date(s) Analyzed: 12/23/2017 12/23/2017

Date(s) Analyzed: 12/23/2017 12/23/2017

Instrument ID (1): **1234567890**      Instrument ID (2): **9876543210**

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	2.2	
	2	0.000	-0.030	0.030	2.1	4.7
Aroclor-1260	1	0.000	-0.030	0.030	0.81	
	2	0.000	-0.030	0.030	0.97	18.0



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## IDENTIFICATION SUMMARY FOR SINGLE COMPONENT ANALYTES

FLHS-VBS-210

*SW-846 8082A*

Lab Sample ID: 17L0743-04 Date(s) Analyzed: 12/23/2017 12/23/2017

Date(s) Analyzed: 12/23/2017 12/23/2017

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

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

ANALYTE	COL	RT	RT WINDOW		CONCENTRATION	%RPD
			FROM	TO		
Aroclor-1254	1	0.000	-0.030	0.030	0.32	
	2	0.000	-0.030	0.030	0.33	3.1



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**FLAG/QUALIFIER SUMMARY**

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

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

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

- S-01 The surrogate recovery for this sample is not available due to sample dilution below the surrogate reporting limit required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.



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#### CERTIFICATIONS

##### Certified Analyses included in this Report

Analyte	Certifications
<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

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	12/30/2018
NC	North Carolina Div. of Water Quality	652	12/31/2018
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	12/14/2018
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



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Doc# 277 Rev 5 2017

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

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

Client	<i>Woodard &amp; Curran</i>		Date	<u>12/18/17</u>	Time	<u>1900</u>
Received By	<u>JM</u>		No Cooler		On Ice	<u>T</u>
How were the samples received?	In Cooler <u>T</u>	Direct from Sampling	Ambient		No Ice	
Were samples within Temperature? 2-6°C	<u>T</u>	By Gun # <u>557</u>	Actual Temp -	<u>2.6</u>	Actual Temp -	
Was Custody Seal Intact?	<u>N/A</u>	By Blank # <u>T</u>	Were Samples Tampered with?	<u>N/A</u>	Does Chain Agree With Samples?	<u>T</u>
Was COC Relinquished ?	<u>T</u>					
Are there broken/leaking/loose caps on any samples?				<u>F</u>		
Is COC in ink/ Legible?	<u>T</u>		Were samples received within holding time?	<u>T</u>		
Did COC include all pertinent Information?	Client Project <u>T</u>	Analysis ID's <u>T</u>	Sampler Name	<u>T</u>	Collection Dates/Times	<u>T</u>
Are Sample labels filled out and legible?	<u>T</u>					
Are there Lab to Filters?	<u>N/A</u>		Who was notified?			
Are there Rushes?	<u>N/A</u>		Who was notified?			
Are there Short Holds?	<u>N/A</u>		Who was notified?			
Is there enough Volume?	<u>N/A</u>		MS/MSD? <u>N/A</u>			
Is there Headspace where applicable?	<u>N/A</u>		Is splitting samples required?	<u>N/A</u>		
Proper Media/Containers Used?	<u>T</u>		On COC? <u>N/A</u>			
Were trip blanks received?	<u>N/A</u>					
Do all samples have the proper pH?	<u>N/A</u>	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: